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Subj: AIM-54 PHOENIX MISSILE SYSTEM, NAVY TRAINING SYSTEMS PLAN  
(NTSP), N88-NTSP-A-50-8007C/A

Ref: (a) OPNAVINST 1500.76

1. Subject NTSP is approved and forwarded per reference (a).
2. Subsequent NTSP review will examine both the effectiveness and efficiency of training outlined in this document.
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Distribution: (one copy unless otherwise indicated)

SNDL	
A1J1A	PROGRAM EXECUTIVE OFFICER TACAIR
A3	CNO (N4J, N889H, N955)
A5	CHNAVPERS (Pers-221, 4, 432)
24A1	COMNAVAIRLANT (N422F, N85)
24A2	COMNAVAIRPAC (N422F, N85)
26B3	COMNAVSURFRESFOR (N71)
26F3	COMOPTEVFOR
42L1	FIGHTER SQUADRON LANT (VF-101)
42S1	AIR TEST AND EVALUATION SQUADRON LANT (VX-1)
42S2	AIR TEST AND EVALUATION SQUADRON PAC (VX-9)
42RR	COMNAVAIRESFOR (N427, N741)
42UU1	SWATSLANT
C58J	NAMTRAGRUDET (Mayport, Norfolk, North Island, Oceana, Whidbey Island)
C80H	NAVAIRWARCENWPNDIV DET GUAM (NAWMU 1)
C84M	NOCPCADIV DET (Fallbrook)
FF5	NAVSAFECEN (Code 43)
FF60	NAVSTKAIRWARCEN FALLON (N7A)
FJA10	NAVMAC (Codes 3, 34, 54)
FKA1A	COMNAVAIRSYSCOM (PMA205, PMA259, AIR-3.4.1)
FKM14	NAVICP (PHILADELPHIA (M059))

FKP1H	NAVORDCEN (IMSD Mechanicsburg (NAMSO, 632, 05331, 8532E), NWADIV Corona, WPNSTA Seal Beach (F3221), Yorktown (053A), Earle (8023))
FKP4E	NAVSURFWARCENDIV (Crane (Code 503A), Dahlgren (Code G61), Indian Head (Codes 5820, 650), Port Hueneme)
FKR6A	NAVAIRWARCENACDIV (Patuxent River (Code SY55), Indianapolis (Codes 921, 933), Lakehurst (Code 52772), TSD Orlando)
FKR6B	NAVAIRWARCENWPNDIV (China Lake (341000D), Point Mugu (311200E))
FKR6C	NAVAIRWPNSTA (China Lake, Point Mugu)
FKR7B	NAESU
FKR7C	NAVAIRTECHDATAENGCOM
FT1	CNET (T252)
FT2	CNATRA (2)
FT12	NAMTRAGRU (N2412) (3)
FT13	NATTC (Pensacola)
FT45	NAVSCOLEOD (Code 0134)
FT73	NETSAFA (Code N25)
FT78	NETPDTC

**APPROVED**

**NAVY TRAINING SYSTEM PLAN**

**FOR THE**

**AIM-54 PHOENIX MISSILE**

**N88-NTSP-A-50-8007C/A**

**APRIL 1999**

## **AIM-54 PHOENIX MISSILE**

### **EXECUTIVE SUMMARY**

The AIM-54 Phoenix Missile was developed in the 1970s as the principle long-range, air-to-air, defense armament of the F-14 Aircraft. The AIM-54 Phoenix Missile is a fielded weapon currently in Phase III, the Production, Fielding/Deployment, and Operational Support Phase of the Weapon System Acquisition Process. The AIM-54 Phoenix Missile is used exclusively on the F-14A/B/D Aircraft.

The AIM-54 Phoenix Missile is a radar guided, air-to-air missile consisting of a guidance section, armament section, propulsion section, control section, interconnecting surface cables, wings, and fins. The three versions of the AIM-54 Phoenix Missile currently being used are the AIM-54A, AIM-54C, and the AIM-54 Electronic Counter Counter-Measure (ECCM)/Sealed. Initial Operating Capability was attained in 1974 for the AIM-54A, 1986 for the AIM-54C, and 1988 for the AIM-54C ECCM/Sealed.

The AIM-54 Phoenix Missile maintenance concept is based on an overall objective to assure All-Up-Rounds are available to fulfill commitments of operational activities and provide the means to restore unserviceable missiles to serviceable condition with minimal downtime. Maintenance requirements are allocated to the organizational, intermediate, and depot levels of maintenance as defined in the Naval Airborne Weapons Maintenance Program, OPNAVINST 8600.2B. Workload associated with AIM-54 Phoenix Missile does not increase existing manning levels.

The AIM-54 Phoenix Missile training concept is divided into organizational and intermediate level. Organizational level training is provided to the operator and maintenance personnel. Operator training is provided to F-14 pilot and Naval Flight Officer personnel by VF-101, Naval Air Station (NAS) Oceana. Strike Weapons and Tactics School, Atlantic (SWATSLANT) NAS Oceana provides F-14 aircrew instruction on Phoenix employment and tactics prior to Carrier Air Wing deployment, and Naval Strike and Air Warfare Center (NSAWC) TOPGUN at NAS Fallon provides select F-14 aircrew instruction on Phoenix employment and tactics. Organizational level maintenance training is provided to Aviation Ordnanceman (AO) by Maintenance Training Unit (MTU) 1007, NAS Oceana and SWATSLANT, NAS Oceana. Intermediate level maintenance training is provided to AO personnel by MTU 4030, Naval Station Mayport; MTU 4032, NAS Norfolk; MTU 4033, NAS North Island; and MTU 4035, NAS Whidbey Island.

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## **LIST OF ACRONYMS**

AEM	Air Evaluation Missile
AIMD	Aircraft Intermediate Maintenance Department
AMIST	Aviation Maintenance In-Service Training
AMTCS	Aviation Maintenance Training Continuum System
AO	Aviation Ordnanceman
ATM	Air Training Missile
AUR	All-Up-Round
BIST	Built-In Self Test
CAI	Computer Aided Instruction
CAIMS	Conventional Ammunition Integrated Management System
CANTRAC	Catalog of Navy Training Courses
CATM	Captive Air Training Missile
CBT	Computer Based Training
CEST	Classroom EOD Systems Trainer
CIN	Course Information Number
CINCLANTFLT	Commander in Chief, Atlantic Fleet
CINCPACFLT	Commander in Chief, Pacific Fleet
CMI	Computer Managed Instruction
CNARF	Commander, Naval Air Reserve Force
CNET	Commander, Naval Education and Training
CNO	Chief of Naval Operations
CWTPPI	Conventional Weapon Technical Proficiency Inspection
DA	Developing Agency
DATM	Dummy Air Training Missile
DEU	Digital Electronics Unit
DOP	Designated Overhaul Point
EA	Electronic Assembly
EAG	Extended Active Gate
ECCM	Electronic Counter Counter-Measure
ECP	Engineering Change Proposal
ECU	Electrical Conversion Unit
EOD	Explosive Ordnance Disposal
EODTEU	Explosive Ordnance Disposal Training Evaluation Unit
ESCA	Electronic Servo Control Amplifier
FOT&E	Follow-On Test and Evaluation

FRS	Fleet Replacement Squadron
GMTS	Guided Missile Test Set
HAP	High Altitude Performance
ICW	Interactive Courseware
ILSP	Integrated Logistics Support Plan
ISA	Inertial Sensor Assembly
IUT	Instructor Under Training
M&P	Manpower and Personnel
MOAT	Missile On Aircraft Test
MSD	Material Support Date
MTIP	Maintenance Training Improvement Program
MTU	Maintenance Training Unit
NA	Not Applicable
NALC	Navy Ammunition Logistics Code
NAMTRAGRU DET	Naval Air Maintenance Training Group Detachment
NAS	Naval Air Station
NAVAIRSYSCOM	Naval Air Systems Command
NAVEDTRA	Naval Education and Training
NAVPERSCOM	Naval Personnel Command
NAVSCOLEOD	Navy School, Explosive Ordnance Disposal
NEC	Navy Enlisted Classification
NFO	Naval Flight Officer
NS	Naval Station
NSAWC	Naval Strike and Air Warfare Center
NSD	Navy Support Date
NSWC	Naval Surface Warfare Center
NTSP	Navy Training System Plan
NWS	Naval Weapons Station
OATMS	OPNAV Aviation Training Management System
OPEVAL	Operational Evaluation
OPNAV	Office of the Chief of Naval Operations
OPNAVINST	Office of the Chief of Naval Operations Instructions
OPO	OPNAV Principle Official
PEST	Practical EOD Systems Trainer

RFT	Ready For Training
RID	Reject Image Device
RSP	Render Safe Procedure
SELRES	Selected Reserve
SFTI	Strike Fighter Tactics Instructor
SFTP	Strike Fighter Training Program
SFTS	Strike Fighter Training System
SFWSL	Strike Fighter Weapons School, Atlantic
SFWSP	Strike Fighter Weapons School, Pacific
SFWT	Strike Fighter Weapons and Tactics
SIST	Serviceable In-Service Time
SRA	Shop Replaceable Assembly
SSRTU	Solid-State Receiver-Transmitter Unit
SWATSLANT	Strike Weapons And Tactics School, Atlantic
TA	Training Agent
TD	Training Device
TDD	Target Detecting Device
TECHEVAL	Technical Evaluation
TMCR	Technical Manual Control Requirements
TSA	Training Support Agent
TTE	Technical Training Equipment
WR	Work Requests
WST	Weapons System Trainer
WTT	Weapons Tactics Trainer



## **PREFACE**

This Navy Training System Plan (NTSP) for the AIM-54 Phoenix Missile was prepared by the Naval Air Systems Command as part of the regular NTSP update process within the guidelines set forth in OPNAVINST 1500.76. This NTSP reflects the changes that have occurred since the previously approved Navy Training Plan, A-50-8007B for the AIM-54C Phoenix Missile dated September 1992.

The major changes and updates to this NTSP consist of:

- PART I** This part shows the deletion of outdated information; incorporation of changes to formal training; updated Training Device (TD) allocation listings; identification of “A” School Core and Strand training and “C” School Initial and Career training; and deletion and relocation of training sites due to decisions made by the Base Realignment Commission.
- PART II** This part has been recalculated to depict current billet requirements of fleet support units through FY03.
- PART III** In addition to reflecting the changes mentioned above, this part has been recalculated to depict chargeable student billets through FY03.
- PART IV** This part has been updated to reflect changes in training and training logistics support requirements.
- PART V** No major changes.
- PART VI** No major changes.
- PART VII** This part has been updated to reflect current Points of Contact.

**PART I - TECHNICAL PROGRAM DATA**

**A. TITLE-NOMENCLATURE-PROGRAM**

- 1. Title-Nomenclature-Acronym.** Phoenix Missile, AIM-54
- 2. Program Element.** 663321N.

**B. SECURITY CLASSIFICATION**

- 1. System Characteristics** ..... Secret
- 2. Capabilities** ..... Secret
- 3. Functions** ..... Unclassified

**C. MANPOWER, PERSONNEL, AND TRAINING PRINCIPALS**

OPNAV Principal Official (OPO) Program Sponsor..... CNO (N88)

OPO Resource Sponsor..... CNO (N880C7)

Developing Agency (DA) ..... NAVAIRSYSCOM (PMA259)

Training Agency (TA) ..... CINCLANTFLT  
CINCPACFLT  
CNET(N-232/N-53)  
COMNAVAIRESFOR  
NSAWC (N7)

Training Support Agency (TSA)..... NAVAIRSYSCOM (PMA205)

Manpower and Personnel (M&P) Mission Sponsor..... CNO (N1)  
NAVPERSCOM (NPC-4, -22)

Commander, Reserve Program Manager..... COMNAVAIRESFOR  
(Code N85)

Director of Naval Training ..... CNO (N7)

## **D. SYSTEM DESCRIPTION**

**1. Operational Uses.** The AIM-54 Phoenix Missile; hereafter referred to as the AIM-54A, AIM-54C, or AIM-54C Electronic Counter Counter-Measure (ECCM)/Sealed Missile when describing each specific configuration, or the Phoenix Missile when referring to all configurations, was developed as the principal long-range, air-to-air, defense armament of the F-14A/B/D aircraft. The combination of the Phoenix Missile and F-14 aircraft are a total weapon system that has the capability to launch up to six missiles against an equal number of targets at ranges sufficient to provide a first line of defense.

**2. Foreign Military Sales.** Currently, there are no Foreign Military Sales of the Phoenix Missile.

**E. DEVELOPMENTAL TEST AND OPERATIONAL TEST.** The AIM-54A Technical Evaluation (TECHEVAL) was completed in November 1973. Operational Evaluation (OPEVAL) was completed in November 1974. The AIM-54C TECHEVAL began in May 1982 and was completed in November 1982. The OPEVAL began in March 1983 and was completed in August 1983. AIM-54C ECCM/Sealed Missile TECHEVAL was completed in June 1985, and OPEVAL was completed in July 1988.

**F. AIRCRAFT AND/OR EQUIPMENT/SYSTEM/SUBSYSTEM REPLACED.** The AIM-54C ECCM/Sealed are replacing the AIM-54A and AIM-54C. As AIM-54A and AIM-54C inventories are depleted, they will not be replenished.

## **G. DESCRIPTION OF NEW DEVELOPMENT**

**1. Functional Description.** The Phoenix Missile is a radar guided, air-to-air missile consisting of a guidance section, armament section, propulsion section, control section, interconnecting surface cables, wings, and fins. The missile is designed for ejection launch using the LAU-93 or LAU-132 launchers. Semi-active and active homing radar and hydraulically operated fins direct and stabilize the missile on course to the target. Propulsion is provided by a solid propellant rocket motor, and lethality by a high explosive warhead. Performance modifications to the AIM-54A were incorporated during and after production. The Reject Image Device (RID), High Altitude Performance (HAP), and Extended Active Gate (EAG) were incorporated during production. The MK 11 MOD 3 Electronics Assembly (EA) modification was installed by retrofit after production. The AIM-54C and AIM-54C ECCM/Sealed Missile have a Built-In Self-Test (BIST) feature. BIST may be selected in conjunction with Missile On Aircraft Test (MOAT). The AIM-54C ECCM/Sealed Missile provides two major improvements over the AIM-54C. They are: (1) ECCM provides enhanced electronic protection, and (2) sealing the

missile eliminates the requirement for aircraft supplied liquid thermal conditioning fluid during captive flight. Major modifications to each section of the different versions of the Phoenix Missile are described below.

**a. Guidance Section**

(1) **AIM-54A.** The RID modification offers improved capabilities against low altitude targets over water. The EAG modification improves capabilities against certain Electronic Counter Measure (ECM) threats.

(2) **AIM-54C.** The AIM-54C Guidance Section incorporates a new Solid-State Receiver-Transmitter Unit (SSRTU), Digital Electronics Unit (DEU), and Inertial Sensor Assembly (ISA) as well as a modified guidance section wiring harness. Design improvements reduce inherent oscillator drift, provide range discrimination, and improve reliability.

(3) **AIM-54 ECCM/Sealed Missile.** The DEU front receiver has been modified and an improved version of the program memory has been added to enhance ECCM capabilities. Heaters have been added, operating temperatures of selected subassemblies have been increased, and circuit temperature compensation has been added for sealed operation. The SSRTU has been modified to improve ECCM performance, selected subassemblies have been improved to increase operating temperature ranges, circuit temperature compensation has been added for sealed operation, and the ISA has been modified to include a heater for sealed operation.

**b. Armament Section**

(1) **AIM-54A.** The MK 11 MOD 3 EA modification upgrades the Target Detecting Device (TDD) to improve warhead lethality against short targets.

(2) **AIM-54C.** The AIM-54C has a new TDD, the DSU-28, utilizing the MK 82 MOD 0 warhead. The MK 82 MOD 0 warhead is used with the DSU-28 on AIM-54C All-Up-Round (AUR), serial number 83001 through 83054. A new warhead, WDU-29/B was incorporated in the FY83 production of the AIM-54C AUR starting with serial number 83055. The new warhead offers a 20-25 percent increase in effectiveness.

(3) **AIM-54C ECCM/Sealed Missile.** The AIM-54C ECCM/Sealed Missile uses the same armament section as the AIM-54C.

**c. Propulsion Section.** The AIM-54A, AIM-54C, and AIM-54C ECCM/Sealed Missile use the MK 47 MOD 1 rocket motor assembly.

**d. Control Section**

(1) **AIM-54A.** The HAP modification improves capabilities against very high and fast flying targets.

(2) **AIM-54C.** The Electronic Servo Control Amplifier (ESCA) replaces the autopilot unit in the AIM-54A control section.

(3) **AIM-54 ECCM/Sealed Missile.** The Electrical Conversion Unit (ECU) has been completely redesigned for sealed operations. The new design requires no heater for temperature regulation.

**2. Physical Description.** The dimensions and weight of the Phoenix Missile are as follows:

Length .....	156 inches
Diameter .....	15 inches
Wing span .....	36 inches
Fin span .....	36 inches
Weight, AIM-54A.....	1000 pounds
Weight, AIM-54C.....	1020-1040 pounds
Weight AIM-54C ECCM/Sealed Missile ..	1023 pounds

**Note:** Weight varies with missile configuration.

**3. Introduction.** The Phoenix Missile was introduced as new production. The AIM-54C was introduced to the fleet in August 1982 as an upgrade to the AIM-54A. The AIM-54C ECCM/Sealed Missile was introduced to the fleet in February 1985 as a configuration Engineering Change Proposal (ECP) to the AIM-54C.

**4. Significant Interfaces.** The F-14A/B/D aircraft missile interface system consists of launchers, weapons rails, multi-purpose pylons, and Phoenix adapter assemblies. The launcher LAU-93 series is used to carry and launch the AIM-54A and AIM-54C from the F-14A/B. The launcher LAU-132 is used to carry and launch the AIM-54C ECCM/Sealed Missile from the F-14D.

**5. New Features, Configurations, or Material.** Not Applicable (NA).

## H. CONCEPTS

**1. Operational Concept.** The Phoenix Missile is employed by F-14 aircrew during air-to-air combat missions, primarily against medium and long-range aerial threats. The F-14 aircraft can be configured with up to six Phoenix Missiles.

**2. Maintenance Concept.** Maintenance of the Phoenix Missile employed on the F-14A/B and the F-14D aircraft is accomplished using the basic maintenance philosophy outlined in OPNAVINST 4790.2 (series), and specific weapons maintenance instructions outlined in OPNAVINST 8600.2 (series).

**a. Organizational.** Organizational-level maintenance units receive the Phoenix Missile as an AUR. Work Center 230 manned by Navy Aviation Ordnanceman (AO) personnel with Navy Enlisted Classification (NEC) 8335 and 8835 (F-14D) or 8345 and 8845 (F-14A/B) perform organizational level maintenance. Phoenix Missile readiness can be verified on deck or in the air by the aircrew. Organizational-level maintenance tasks include:

- Aircraft and weapon system inspections
- Aircraft and weapon system release and control system checks
- Weapon uploading and downloading
- Weapon arming and de-arming
- On aircraft weapon test
- Discrepancy reporting
- Complying with Technical Directives
- Record keeping and reporting

**b. Intermediate.** Intermediate Maintenance Activities' Weapons Departments (shipboard and Naval Air Stations) receive AURs from the Naval Weapons Station (NWS), and launchers from the supply system or Aircraft Intermediate Maintenance Department (AIMD). Phoenix Missile maintenance is performed by Weapons Department AO personnel with NEC 6801. Navy AO personnel with NEC 6802 functionally test the launchers at AIMD Work Center 710. Weapons Department intermediate-level maintenance tasks include:

- Visually inspect for damage and corrosion
- Perform corrosion control procedures
- De-containerize and containerize AUR
- Install and remove wings and fins
- Ready service inspection
- Record keeping and reporting
- Prepare AUR for shipping or storage
- Technical Directive implementation

- Deliver missile to organizational activity

c. **Depot.** OPNAVINST 8600.2b divides depot-level maintenance into two sub-

Support Plan (ILSP) for the AIM-54 Phoenix Air-to-Air Guided Missile also divides depot-level maintenance into two sub-levels: AUR depot-level maintenance and depot-level maintenance.

NWS Seal Beach (Fallbrook Annex), California, and NWS Yorktown, Virginia, are the AUR depot-level maintenance activities for the NWS maintenance for forward-deployed assets. maintenance tasks include:

- Visual inspection for damage and corrosion
  - Fault isolation by AUR test to faulty section
  - Repair by replacement of failed sections and external components
  - Perform corrosion control procedures
  - Containerize AUR for storage or loadout
- Technical Directive implementation  
Recertification of AUR by retest  
Record keeping and reporting  
Minor container repair

(2) **Designated Overhaul Point.** The DOP is responsible for beyond the capabilities of the NWS (depot level AUR) activities, including major overhaul or complete rebuild of sections or subassemblies Shop Replaceable Assemblies (SRA) to original acceptance standards. DOP maintenance is performed on warheads, containers, wings, and fins at the DOP maintenance is performed at NWS Seal Beach (Fallbrook Annex), California, and NWS Seal Beach, California. Guidance, control section, and internal sensor assembly DOP maintenance is Letterkenny Army Depot, Chambersburg, Pennsylvania. Rocket motor assembly and (NSWC) Indian Head Serviceable sections and components repaired by the DOP, are returned to

d. **Interim Maintenance.** The Phoenix Missile has achieved full organic support.

AIM-54C and AIM-54C ECCM/Sealed.

**Life Cycle Maintenance Plan.**

defines an interval during which a missile or missile component is in a serviceable condition. SIST

for AIM-54A is 18 months after testing at the NWS, and 24 months for the AIM-54C and AIM-54C ECCM/Sealed.

**3. Manning Concept.** The Phoenix Missile has no direct impact on existing manpower requirements at organizational, intermediate, or depot level activities. Pilot and Navy Flight Officer (NFO) manpower is driven by seat factor and crew ratio. Enlisted manning for fleet squadrons, Fleet Readiness Squadrons (FRS), and intermediate maintenance activities is based on the total assigned workload for air-launched weapons, not only on specific Phoenix Missile requirements. Skills required to support the Phoenix Missile are considered to be within the capability of existing NECs. Refer to Part II for existing intermediate maintenance manpower requirements.

The Navy Squadron Training Matrices (COMNAVAIRPACINST 3500.67C/COMNAVAIRLANTINST 3500.63C) for the F-14 aircraft was used to estimate peacetime manpower requirements for the Phoenix Missile. These instructions provide annual aircrew training requirements, which include events that involve captive carry and live fire of ordnance. For F-14 squadrons, the only training events that involve the use of the Phoenix Missile or its associated Captive Air Training Missile (CATM) are event number 20, AIM-7/AIM-54 Live Shot, and event number 61, Low/Slow Intercept. For both events, the requirement is intended to provide radar missile qualification, and therefore, there is an option of using either an AIM-7 (Sparrow Missile) or a Phoenix Missile for the live shot, and either a Sparrow or Phoenix CATM for the low/slow intercept. The live shot is required once every three years per aircrewman, while the low/slow intercept is required nine times per year (three intercepts every 120 days) per aircrewman. Using a worst case of one sortie per low/slow intercept, and based on eighteen aircrewman per squadron, there is a possibility of 168 Phoenix Missile/CATM loading-downloading cycles per F-14 squadron (162 low/slow intercept events plus 6 live shot events). Loading cycles include de-containerizing, transport, assembly, upload, download, disassembly, transport, and containerizing of the Phoenix Missile or CATM. Thus five F-14 AOs (NEC 8335, 8345, 8835, or 8845) and three Weapons Department AO 6801 are required to support annual Phoenix Missile/CATM loading cycles per F-14 squadron, even though only a portion of their workload will be driven by the Phoenix Missile.

**4. Training Concept.** The Phoenix Missile training concept is divided into organizational and intermediate-levels of maintenance based on OPNAVINST 8600.2 (series). Organizational-level training is provided to operator and maintenance personnel. Operator training is provided for F-14 pilot and NFO personnel. Organizational-level maintenance training is provided to AO personnel awarding NECs 8845, 8335, and 8345. Intermediate-level training is provided to AO personnel awarding NEC 6801.

A new training concept for most aviation maintenance training has been established. This concept entails dividing "A" School courses into two or more segments called core and strand, and C1 courses into separate initial and career training courses. "A" School Core courses



include general knowledge and skills training for the particular rating, while “A” School strand courses focus on the more specialized training requirements for that rating and a specific aircraft or equipment, based on the student’s fleet activity destination. Strand training immediately follows core training and is part of the “A” School. Upon completion of core and strand “A” School, graduates attend the appropriate initial “C” school for additional specific training. Initial “C” school training is intended for students with a paygrade of E-4 and below. Career “C” school training is provided to personnel E-5 and above to enhance their skills and knowledge within their field. Selected Reserve (SELRES) training is conducted by the Naval Air Reserve at each squadron site per current Commander, Naval Air Reserve Force (CNARF) instructions. The training is segmented and tailored for use by SELRES personnel during weekend drill periods and two-week active duty periods. If SELRES personnel and training quotas are available, CNARF must coordinate with appropriate quota controls to get training quotas at the FRS.

**a. Initial Training.** All initial training has been completed. No further initial training is planned.

**b. Follow-on Training.** Follow-on training for the Phoenix Missile is available as part of courses taught at Fleet Readiness Squadron (FRS), VF-101, Naval Air Station (NAS) Oceana, Virginia; Naval Strike and Air Warfare Center (NSAWC) N7 (Topgun); Strike Weapons And Tactics School, Atlantic (SWATSLANT), NAS Oceana; Maintenance Training Unit (MTU) 1007, Naval Air Maintenance Training Group Detachment (NAMTRAGRU DET), NAS Oceana, Virginia; MTU 4030, NAMTRAGRU DET, Naval Station (NS) Mayport, Florida; MTU 4032, NAMTRAGRU DET, NAS Norfolk, Virginia; and MTU 4033, NAMTRAGRU DET, NAS North Island, California, and MTU 4035, NAS Whidbey Island. Explosive Ordnance Disposal (EOD) training is available through Navy School, Explosive Ordnance Disposal (NAVSCOLEOD), Eglin Air Force Base, Florida. The Phoenix Missile causes no change in student throughput or chargeable student billets. Follow-on training courses have all been modified to include the updated AIM-54C ECCM/Sealed.

**(1) Operator Training.** Pilots and NFOs are trained at VF-101 NAS Oceana for specific aircraft operation, tactic skills, and ordnance delivery. SWATSLANT and NSAWC N7 provide more in-depth training on the Phoenix Missile. Training Devices (TD) used for operator proficiency training include:

- **Weapon Systems Trainer (WST).** The F-14 community uses the WST 2F169 and WST 2F153, commonly referred to as “dome trainers”, to simulate engagements and to practice weapons employment procedures and tactics. These TDs contain programmed Phoenix Missile scenarios, and are shared by the FRS and the operational squadrons that are shore-based between deployments.

- **Captive Air Training Missile (CATM).** The Phoenix CATM, designated as ATM-54A or ATM-54C are equivalent to tactical missiles in weight, balance, and

external appearance. A Phoenix CATM consists of functional guidance and control sections and inert armament and propulsion sections.

- **Air Evaluation Missile (AEM).** AEMs are telemetry-equipped missiles required for live firings in Follow-On Test and Evaluation (FOT&E), operational readiness evaluation, test and evaluation, and fleet readiness.

- **Air Training Missile (ATM).** ATMs are equivalent to tactical missiles in weight, balance, and external appearance. The ATM consists of a tactical guidance, control, and propulsion section. The armament section fuze, fuze booster, and explosive lead have been removed to prevent warhead detonation upon target intercept. ATMs function identical to tactical missiles and are used for live firings at airborne targets during fleet training exercises.

The following table lists the applicable operator training courses. The Phoenix Missile source material has been incorporated in these courses with minimal impact. The Phoenix Missile causes no change in student throughput or chargeable student billets, and, therefore, these courses will not appear in Parts II and III. For complete course listings, please refer to NTP A-50-8511A.

**Table I-1 Operator Courses**

<b>COURSE NUMBER</b>	<b>COURSE TITLE</b>	<b>RFT DATE FOR PHOENIX</b>
D-2A-1601	F-14 Pilot Category 1	On-line
D-2A-1602	F-14 Pilot Category 2	On-line
D-2A-1603	F-14 Pilot Category 3	On-line
D-2A-1604	F-14 Pilot Category 4	On-line
D-2A-1605	F-14 Pilot Instructor Under Training (IUT) Category 5	On-line
D-2D-1601	F-14 Naval Flight Officer Category 1	On-line
D-2D-1602	F-14 Naval Flight Officer Category 2	On-line
D-2D-1603	F-14 Naval Flight Officer Category 3	On-line
D-2D-1604	F-14 Naval Flight Officer Category 4	On-line
D-2D-1605	F-14 Naval Flight Officer (IUT) Category 5	On-line
D-2A-1631	F-14D Category 1 Replacement Pilot	On-line
D-2A-1634	F-14D Category 2 Replacement Pilot	On-line
D-2A-1637	F-14D Category 3 Replacement Pilot	On-line
D-2A-1640	F-14D Category 4 Replacement Pilot	On-line
D-2D-1631	F-14D Naval Flight Officer Category 1	On-line
D-2D-1634	F-14D Naval Flight Officer Category 2	On-line
D-2D-1637	F-14D Naval Flight Officer Category 3	On-line
D-2D-1640	F-14D Naval Flight Officer Category 4	On-line
None	F-14 Strike Fighter Advanced Readiness Program	On-line
None	F-14 Strike Fighter Weapons Employment	On-line

**(2) Initial Skills - Maintenance.** Initial skills training for the AO A1 School at NAS Pensacola, Florida, provides the Aviation Ordnanceman rating. The following

table lists the applicable initial skill courses for the AO rating. Phoenix source material has been incorporated in these courses with minimal impact. This caused no change in student throughput or chargeable student billets; therefore, these courses will not appear in Parts II and III.

**Table I-2 Initial Skills - Maintenance Courses**

<b>COURSE NUMBER</b>	<b>COURSE TITLE</b>	<b>RFT DATE FOR PHOENIX</b>
C-646-2011	Aviation Ordnanceman Common Core Class A1	On-line
C-646-2012	Aviation Ordnanceman Airwing Strand Class A1	On-line
C-646-2013	Aviation Ordnanceman Ship's Company Strand Class A1	On-line

**(3) Organizational Maintenance.** Organizational-level maintenance personnel are trained at the appropriate MTU for specific aircraft maintenance. Weapon loading skills are further enhanced at SWATSLANT and through on-board proficiency training. TDs for Phoenix organizational-level maintenance training include:

- **Dummy Air Training Missile (DATM)-54A.** The DATM-54A is an inert, replica of the Phoenix Missile, which adequately satisfies the organizational-level training requirements for the Phoenix Missile. It facilitates instruction and familiarization of Phoenix Missile handling, loading, and visual inspection procedures for organizational-level maintenance training purposes. The DATM-54A is not certified for flight and is designed for ground training use only. Phoenix CATMs are suitable replacements for the Phoenix DATM-54A. For detailed information on TDs refer to element IV.A.2.

The following table lists the applicable organizational-level maintenance training courses. Phoenix Missile source material has been incorporated in these courses with minimal impact. This caused no change in student throughput or chargeable student billets; therefore, these courses will not appear in Parts II and III. For complete course listings, please refer to NTP A-50-8511A.

**Table I-3 Organizational-Level Maintenance Courses**

<b>COURSE NUMBER</b>	<b>COURSE TITLE</b>	<b>RFT DATE FOR PHOENIX</b>
C-646-9962	F-14A/B Armament Systems Initial Organizational Maintenance	On-line
C-646-9963	F-14A/B Armament Systems Career Organizational Maintenance	On-line
D-646-9906	F-14D Armament Systems Organizational Maintenance (Difference)	On-line
D-646-1644	F-14A/B Conventional Weapons Loading Team	On-line
D-646-1645	F-14A/B Integrated Weapons Team Training	On-line
D-646-1646	F-14D Conventional Weapons Loading	On-line
D-646-1648	F-14D Integrated Weapons Team Training	On-line

**(4) Intermediate Maintenance.** Intermediate-level maintenance personnel are trained at the appropriate MTU for specific weapon maintenance. TDs for Phoenix intermediate-level maintenance training include:

- **DATM-54A.** The Phoenix DATM-54A satisfies the intermediate-level training requirements for the Phoenix Missile. It facilitates instruction and familiarization of Phoenix Missile de-containerizing, handling, transporting, and visual inspection procedures for intermediate-level maintenance training purposes. The DATM-54A is not certified for flight and is designed for ground training use only. The Phoenix CATMs are suitable replacements for the DATM-54A. For detailed information on TDs refer to element IV.A.2.

The following table lists intermediate-level maintenance training courses that had Phoenix Missile source material incorporated with minimal impact. These updates caused no change in student throughput or chargeable student billets; therefore, these courses will not appear in Parts II and III.

**Table I-4 Intermediate-Level Maintenance Courses**

<b>COURSE NUMBER</b>	<b>COURSE TITLE</b>	<b>RFT DATE FOR AIM-7M/P</b>
C-646-4108	Air Launched Weapons Ordnance Supervisor	On-line
C-646-4109	Weapons Department General Ordnance	On-line

The following courses were updated to include Phoenix Missile data, but course lengths were not affected.

<b>Title</b>	<b>Air Launched Guided Missiles Intermediate Maintenance</b>
.....	
CIN .....	C-122-3111A (part of D/E-646-7007)
Model Manager...	MTU 4030, NAMTRAGRU DET, Naval Station (NS) Mayport
Description .....	From Catalog of Navy Training Courses (CANTRAC): To provide ordnance personnel with knowledge of the Sparrow, Sidewinder, Phoenix, Sidearm, AMRAAM, Maverick, Harpoon, SLAM, HARM, Walleye, TALD, and Air Nitrogen Purifier Units.
Locations .....	MTU 4030, NAMTRAGRU DET, NS Mayport MTU 4032, NAMTRAGRU DET, NAS Norfolk MTU 4033, NAMTRAGRU DET, NAS North Island MTU 4035, NAMTRAGRU DET, Whidbey Island
Length .....	11 days
RFT date .....	Currently available
Skill identifier .....	AO 6801
TTE/TD .....	CNU-242A/E, ADU-399A/E, ADU-406/E, MHU-129/E, ADU-433A/E, ADU-434A/E, DATM-54A
Prerequisite .....	C-646-2013 Aviation Ordnanceman Ship's Company Strand Class A1

**(5) Explosive Ordnance Disposal Training.** EOD training is conducted at NSWC Indian Head Division, Maryland. The TDs required for EOD training are the Practical Explosive Ordnance Disposal System Trainer (PEST) and the Classroom Explosive System Trainer (CEST), however, salvaged of inert tactical missiles and/or components and CATMs are used in their place, as Phoenix PEST and CEST were never developed nor procured. Phoenix CATMs do not contain the safe and arm components required for teaching practical application of Render Safe Procedures (RSP):

- **Practical Explosive Ordnance Disposal System Trainer (PEST).**

The basic performance requirements for a PEST are: 1) to replicate the external features of tactical missile for visual identification purposes; 2) to possess the same weight and center of gravity as the tactical missile for handling realism; 3) to contain inert explosive train components; and 4) to disassemble identically to the tactical missile (where applicable) in order to practice RSPs. A Phoenix PEST was never developed nor procured, however, practical training requirements for the Phoenix Missile are currently met through the use of salvaged inert tactical missiles and/or components and CATMs.

- **Classroom Explosive System Trainer (CEST).** The basic performance requirements for a CEST are: 1) to replicate the external features of tactical missile

for visual identification purposes; 2) to contain inert explosive train components; and 3) to provide cut-away areas in its exterior in order to view the inert explosive train components for teaching RSPs. A Phoenix CEST was never developed nor procured; however, classroom training requirements for Phoenix Missile are currently supported through the use of salvaged inert tactical missiles and/or components and CATMs that have been modified (cut-away) to view internal, inert explosive components. For detailed information on TDs refer to element IV.A.2.

The following table lists the applicable EOD training courses. Phoenix Missile source material has been incorporated in these courses with minimal impact. This caused no change in student throughput or chargeable student billets; therefore, these courses will not appear in Parts II and III.

**Table I-5 Explosive Ordnance Disposal Courses**

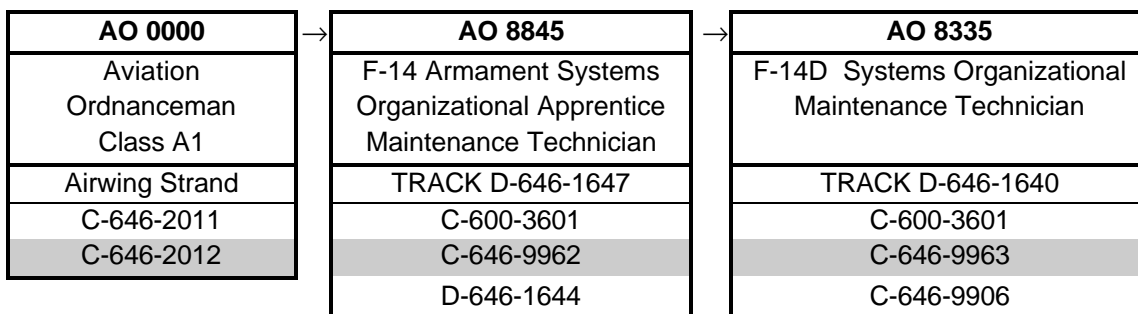
<b>COURSE NUMBER</b>	<b>COURSE TITLE</b>	<b>RFT DATE FOR PHOENIX</b>
A-431-0011	Explosive Ordnance Disposal (EOD) Phase II (Navy)	On-line
A-431-0012	Explosive Ordnance Disposal (EOD) Phase II	On-line
G-431-0001	EOD Pre-deployment Team Training	On-line

**c. Student Profiles.** The following enlisted manpower and personnel classifications are required to support the Phoenix Missile. In many instances, AO personnel who support the Phoenix Missile do not possess the component NEC because they attained their primary NEC prior to the recent A School and C School changes.

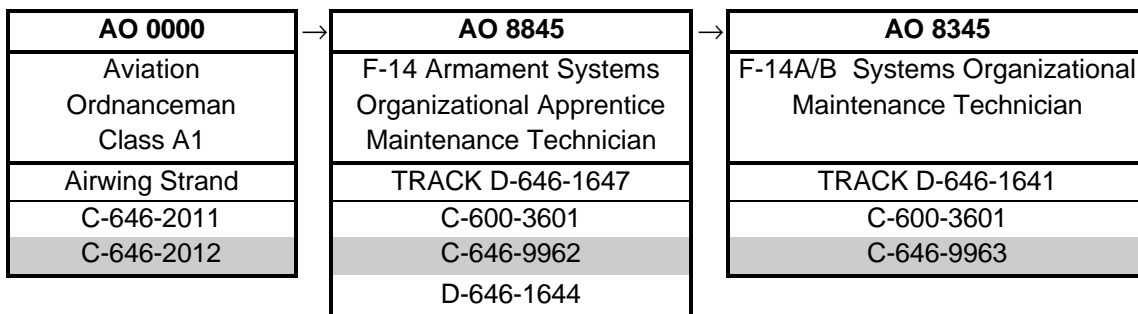
**Table I-6 Phoenix Missile Student Profiles**

<b>RATING and NEC or MOS</b>	<b>TITLE</b>	<b>COMPONENT NEC or MOS</b>
AO 8835	F-14D Armament System Organizational Apprentice Maintenance Technician	AO 0000
AO 8335	F-14D System Organizational Maintenance Technician	AO 8835
AO 8845	F-14 Armament System Organizational Apprentice Maintenance Technician	AO 0000
AO 8345	F-14A/B System Organizational Maintenance Technician	AO 8845
AO 6801	Air Launched Weapons Technician	AO 0000

**d. Training Pipelines.** The following training pipelines and tracks correspond to student profiles listed above. These pipelines and tracks are based on the training system that is in place today, and may not reflect actual progressions for personnel who completed formal training prior to the recent A School and C School changes. Shaded courses were affected by introduction of the AIM-54C ECCM/Sealed. Training tracks and associated courses are available in the OPNAV Aviation Training Management System (OATMS).



**Figure I-1** F-14D Systems Organizational Maintenance Technician Career Progression



**Figure I-2** F-14A/B Systems Organizational Maintenance Technician Career Progression

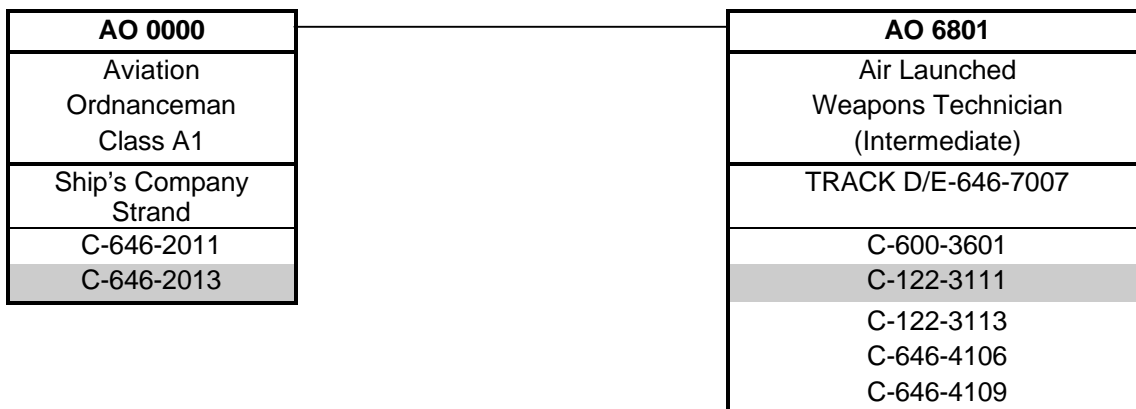


Figure I-3 Air Launched Weapons Technician Career Progression

## I. ON-BOARD (IN-SERVICE) TRAINING

### 1. Proficiency or Other Organic Training.

**a. Maintenance Training Improvement Program.** The Maintenance Training Improvement Program (MTIP) is an effective and efficient training system that is responsive to fleet training requirements. It consists of a bank of test questions that are managed through automated data processing. The Deputy Chief of Staff for Training assists in the development of MTIP by providing those question banks (software) already developed by the Navy. MTIP is implemented per OPNAVINST 4790.2F. MTIP is a training management tool that, through diagnostic testing, identifies individual training deficiencies at both the organizational- and intermediate-levels of maintenance. MTIP allows increased effectiveness in the application of training resources through identification of skill and knowledge deficiencies at the activity, work center, or individual technician level. Remedial training is concentrated where needed to combat identified skill and knowledge shortfalls.

**b. Aviation Maintenance In-Service Training.** Aviation Maintenance In-Service Training (AMIST) is intended to support Fleet training requirements now satisfied by MTIP and in that sense is the planned replacement. However, it is structured very differently and will function as an integral part of the new Aviation Maintenance Training Continuum System (AMTCS) that will replace the existing aviation maintenance training structure. AMIST will provide standardized instruction to bridge the training gaps between initial and career training. With the implementation of AMIST, the technician will be provided the training required to maintain a level of proficiency necessary to perform effectively the required tasks to reflect a career progression. AMTCS redesigns the aviation training process (training continuum), and introduces Computer Based Training (CBT) throughout the Navy technical training process. The application and adoption of recent advances in computer hardware and software technology have enabled



CBT with its basic elements of Computer Managed Instruction (CMI), Computer Aided Instruction (CAI), and Interactive Courseware (ICW) to be integrated into the training continuum and provide essential support for standardizing technical training.

**c. Strike Fighter Training Program (SFTP).** NSAWC N7 (Topgun), SFWSL, SFWSP, and SWATSLANT, are developing post-FRS training at the squadron level for Navy Strike Fighter aircraft (F-14 and F/A-18). This post-FRS training continuum is known as the SFTP and is composed of three equally critical elements: the Strike Fighter Weapons and Tactics (SFWT) curricula, the Strike Fighter Tactics Instructor (SFTI), and the Strike Fighter Training System (SFTS). The SFWT curricula will be taught by each squadron's SFTI, who will be supported by the SFTS, a multimedia computer-based training system that will host CMI, CAI, CBT and ICW. Aircrew weapons proficiency training will continue to be accomplished using existing methods: Academic, Simulator (WTT/ WST), CATM and/or embedded aircraft simulation, and live missile shots supported by the Non-Combat Expenditure Allowance. However, capability ratings will be based on performance rather than completion, i.e., it will not be based simply upon completing the training events, but upon how well they are completed. Training events will be measured using defined metrics, and collectively these events will be evaluated to determine actual combat readiness, quantitatively (objectively) rather than qualitatively (subjectively).

**2. Personnel Qualification Standards.** Not Applicable (NA).

**3. Other On-Board or In-service Training Packages.**

**a. Conventional Weapon Technical Proficiency Inspection.** The Conventional Weapon Technical Proficiency Inspection (CWTPI) is a graded inspection administered by either SFWSP, SFWSL, or SWATSLANT. The CWTPI covers all areas of conventional weapon load and release, and control systems checks. The inspection evaluates the squadron's ability to wire-check, upload and download conventional ordnance, use applicable publications, and place ordnance on its designated target. The squadron inspection is conducted annually, six months prior to deployment, or at the request of the squadron's Commanding Officer. All personnel directly involved in the inspection, including squadron pilots require a written examination. A 72 hour time limit is granted for the completion of the entire evolution. The final grade is an average score derived from the written exams, ordnance loads, wire checks, and the pilot's proficiency to deliver weapons on target. Pre-inspection training is provided by the appropriate SFWS followed by the CWTPI. The CWTPI determines the need for further conventional weapons load training of squadron AO and Aviation Electronics Technician personnel at the appropriate school.

## **J. LOGISTICS SUPPORT**

**1. Manufacturer and Contract Numbers.**

<b>CONTRACT NUMBER</b>	<b>MANUFACTURER</b>	<b>ADDRESS</b>
N00019-89-C-0079 N00019-90-C-0069	Hughes Aircraft Co.	Tucson, Arizona
N00019-89-C-0112	Raytheon	Lowell, Massachusetts

**2. Program Documentation.** The current ILSP is ILSP No. MS-027, approved October 1993.

**3. Technical Data Plan.** Navy technical publication requirements are identified in Technical Manual Control Requirements (TMCR) and Work Requests (WR) issued by the Naval Air Technical Data and Engineering Command. Each TMCR and WR identifies the required technical manuals or technical source data to be furnished, the general and detailed technical content, and the preparation specifications. NA-01-AIM54-0 lists all technical manuals required for the AIM-54A, AIM-54C and AIM-54C ECCM/Sealed Missiles. Manuals required for training are currently available and listed in element IV.B.3 of this NTSP.

#### **4. Test Sets, Tools, and Test Equipment**

**a. Test Sets.** The AN/DSM-130 Guided Missile Test Set (GMTS), used at the NWS for testing the AUR, is an integrated test set designed for computer controlled testing of the AIM-54A, AIM-54C, and AIM-54C ECCM/Sealed.

DOP depot-level test sets have been delivered. AIM-54A depot level test sets were modified for use with the AIM-54C and AIM-54C ECCM/Sealed Missile configuration testing. The following test sets and stations were modified:

- Unit/Assembly Test Station - 1046245
- Flexible Automatic Circuit Tester - 1046290
- Guidance Section Test Station - N089122-4
- Control Section Test Station - N089122-5

Letterkenny Army Depot, Chambersburg, Pennsylvania, test station requirements for the AIM-54C and AIM-54C ECCM/Sealed Missile configurations are:

- DEU Test Station - 1351200
- Front/Rear Receiver Test Station - 1128620
- Digital Chassis Test Station - 1351500
- ISA Test Station - 1351951

- Receiver-Transmitter Test Station - 1352000
- Programmable Read-Only Memory Test Station - 1046240
- Hybrid Test Station (analog) - 1351600
- Hybrid Test Station (digital) - 1351800

AIM-54A test stations that do not support the AIM-54C and AIM-54C ECCM/Sealed Missile will no longer be required when AIM-54A inventories are depleted.

**b. Tools.** The Phoenix Missile did not introduce any new peculiar tools.

**c. Other Support Equipment.** The following table lists the Phoenix Missile peculiar support equipment.

**Table I-7 Phoenix Peculiar Support Equipment**

EQUIPMENT	DESIGNATOR or PART NUMBER	USE
Container, AUR	CNU-242A/E	Shipping/storage of 2 AURs
Adapter, guided missile	ADU-399A/E	Adapting missile to skids and trailers for transport
Adapter, trailer	ADU-406/E	Adapting missile to trailer for transport
Beam, hoisting	MHU-129/E	Adapting missile to hook lift devices
Height adapter (aft)	ADU-433A/E	Adapting missile to trailer for transport
Height adapter (forward)	ADU-434A/E	Adapting missile to trailer for transport

**5. Repair Parts.** The Material Support Date (MSD) for the AIM-54A was achieved April 1975, and the MSD for the AIM-54C and AIM-54 ECCM/Sealed was achieved August 1986. Repair parts are available through the Navy supply system. Normal replenishment procedures based upon demand and usage are used to maintain stock levels of spares, repair parts, and consumables.

**6. Human Systems Integration.** NA.

## **K. SCHEDULES**

**1. Schedule of Events.** The AIM-54A attained initial operational capability in 1974 as the principal long-range defense armament of the F-14 Aircraft. Approximately 2,500 production AIM-54A missiles were delivered between 1972 and October 1980.

The AIM-54C missile attained initial operational capability in December 1986. Approximately 300 production AIM-54C missile were delivered between August 1982 August 1986.

The AIM-54C ECCM/Sealed attained initial operational capability in 1988. Approximately 1900 production AIM-54C ECCM/Sealed Missiles were delivered between February 1986 and September 1992. All fleet deliveries are complete. NSD was attained in September 1991. All training activities are currently Ready For Training (RFT).

**a. Installation and Delivery Schedules.** Phoenix Missile schedules are classified and are contained in the Weapon Systems Planning Document for the Phoenix Missile, NAVAIRNOTE C13100 of 5 January 1996.

**b. Ready For Operational Use Schedule.** The Phoenix Missile is currently considered to be ready for operational use.

**c. Time Required to Install at Operational Sites.** The Phoenix Missile is delivered as an AUR.

**d. Foreign Military Sales and Other Source Delivery Schedule.** NA.

**e. Training Device and Delivery Schedule.** One hundred twenty-two CATMs and 23 DATMs have been delivered to the fleet. For the most up-to-date list of the location of the TDs, a current listing from Conventional Ammunition Integrated Management System (CAIMS) should be obtained. Element IV.A.2 of this NTSP contains information on locations of TDs.

**L. GOVERNMENT FURNISHED EQUIPMENT AND CONTRACTOR FURNISHED EQUIPMENT TRAINING REQUIREMENTS. NA**

**M. RELATED NTSPs AND OTHER APPLICABLE DOCUMENTS**

**Table I-8 Related NTSPs and Other Applicable Documents**

<b>DOCUMENT OR NTSP TITLE</b>	<b>DOCUMENT OR NTSP NUMBER</b>	<b>PDA CODE</b>	<b>STATUS</b>
F-14 A/B/D Aircraft	N88-NTSP-A-50-8511B/D	PMA205	Draft August 1998
Phoenix Missile System ILSP	MS-027	AIR-4101L2	Approved October 1993
Phoenix Operational Logistics Support Plan	MS-020	AIR-4181C2	Approved January 1989

## **PART II - BILLET AND PERSONNEL REQUIREMENTS**

The following elements are not affected by the AIM-54; therefore, they are not included in Part II of this NTSP:

### **II.A. Billet Requirements**

#### **II.A.2. Operational and Fleet Support Activity Deactivation Schedule**

### **II.B. Personnel Requirements**

#### **II.B.3. Foreign, Other Service, and Non-Military Personnel Annual Training Input Requirement**

**NOTE 1:** This section of the AIM-54 NTSP reflects maintenance billet and personnel requirements for the AIM-54. It is a compilation of two organizational and one intermediate level NEC (AO 8335, AO 8345 and AO 6801, respectively) with associated billets. The AIM-54 impacts only a small percentage of the required workload for those NECs, which are not dedicated to the AIM-54.

**NOTE 2:** All billets identified in this section are programmed through other NTSPs, e.g., F-14 NTSP, applicable CV/CVN Class Total Ship NTSP, or applicable Shore Activity Manning Documents. The activities and associated billets are listed to assist the weapons training community in identifying and managing training requirements throughout the development, production, and deployment of the AIM-54.

**PART II - BILLET AND PERSONNEL REQUIREMENTS**

**II.A. BILLET REQUIREMENTS**

**II.A.1.a. OPERATIONAL AND FLEET SUPPORT ACTIVITY ACTIVATION SCHEDULE**

**SOURCE:** NAVAIRSYSCOM PMA259/PMA205

**DATE:** 11/97

ACTIVITY	UIC	PFYs	CFY98	FY99	FY00	FY01	FY02
<b>OPERATIONAL</b>	<b>NAVY</b>						
NAVWPNTSTRON CL	39787	1	0	0	0	0	0
NAVWPNTSTRON PM	39788	1	0	0	0	0	0
NAVSTKAIRSTRON	39783	1	0	0	0	0	0
VX-9	55646	1	0	0	0	0	0
VF-101	09067	1	0	0	0	0	0
VF-14	09084	1	0	0	0	0	0
VF-32	09053	1	0	0	0	0	0
VF-41	09774	1	0	0	0	0	0
VF-154	09678	1	0	0	0	0	0
VF-211	09086	1	0	0	0	0	0
VF-213	09934	1	0	0	0	0	0
VF-102	09717	1	0	0	0	0	0
VF-103	09718	1	0	0	0	0	0
VF-2	09113	1	0	0	0	0	0
VF-11	09560	1	0	0	0	0	0
VF-31	09473	1	0	0	0	0	0
VF-143	09281	1	0	0	0	0	0
VF-201	09309	1	0	0	0	0	0
NSAWC N7	69190	1	0	0	0	0	0
SWATSLANT	47157	1	0	0	0	0	0
VFC-12	52994	1	0	0	0	0	0
VFC-13	52995	1	0	0	0	0	0
<b>TOTAL:</b>		22	0	0	0	0	0
<b>FLEET SUPPORT</b>	<b>NAVY</b>						
AIMD Dallas	00215	1	0	0	0	0	0
AIMD Fallon	60495	1	0	0	0	0	0
AIMD Oceana	60191	1	0	0	0	0	0
CV-63 USS Kitty Hawk	03363	1	0	0	0	0	0
CV-64 USS Constellation	03364	1	0	0	0	0	0
CVN-65 USS Enterprise	03365	1	0	0	0	0	0
CV-67 USS Kennedy	03367	1	0	0	0	0	0
CVN-68 USS Nimitz	03368	1	0	0	0	0	0
CVN-69 USS Eisenhower	03369	1	0	0	0	0	0
CVN-70 USS Vinson	20993	1	0	0	0	0	0
CVN-71 USS Roosevelt	21247	1	0	0	0	0	0
CVN-72 USS Lincoln	21297	1	0	0	0	0	0
CVN-73 USS Washington	21412	1	0	0	0	0	0
CVN-74 USS Stennis	21847	1	0	0	0	0	0
CVN-75 USS Truman	21853	1	0	0	0	0	0
NAWMU-1	52821	1	0	0	0	0	0
NAWCAD Patuxent River	00421	1	0	0	0	0	0
NAWCWD Point Mugu	63126	1	0	0	0	0	0
NAWS Point Mugu	0429A	1	0	0	0	0	0
NAWS China Lake	68937	1	0	0	0	0	0
<b>TOTAL:</b>		20	0	0	0	0	0

**II.A.1.b. BILLETS REQUIRED FOR OPERATIONAL AND FLEET SUPPORT ACTIVITIES<sup>1</sup>**

ACTIVITY	UIC	PHASING INCR.	BILLETS OFF	ENL	DESIGN RATING	PNEC/SNEC PMOS/SMOS
<b>OPERATIONAL</b>	<b>NAVY</b>					
NAVWPNTTESTRON CL	39787					
ACDU			0	3	AO	6801
ACDU			0	5	AO	8345
<b>ACTIVITY TOTAL:</b>			0	8		
NAVWPNTTESTRON PM	39788					
ACDU			0	3	AO	6801
ACDU			0	5	AO	8345
<b>ACTIVITY TOTAL:</b>			0	8		
NAVSTKAIRTESTRON	39783					
ACDU			0	3	AO	6801
ACDU			0	5	AO	8345
<b>ACTIVITY TOTAL:</b>			0	8		
VX-9	55646					
ACDU			0	3	AO	6801
ACDU			0	5	AO	8345
<b>ACTIVITY TOTAL:</b>			0	8		
VF-101	09067					
ACDU			0	5	AO	8345
VF-14	09084					
ACDU			0	5	AO	8345
VF-32	09053					
ACDU			0	5	AO	8345
VF-41	09774					
ACDU			0	5	AO	8345
VF-154	09678					
ACDU			0	5	AO	8345
VF-211	09086					
ACDU			0	5	AO	8345
VF-213	09934					
ACDU			0	5	AO	8345
VF-102	09717					
ACDU			0	5	AO	8345
VF-103	09718					
ACDU			0	5	AO	8345
VF-2	09113					
ACDU			0	5	AO	8335
VF-11	09560					
ACDU			0	5	AO	8335
VF-31	09473					
ACDU			0	5	AO	8335
VF-143	09281					
ACDU			0	5	AO	8335
VF-201	09309					

<sup>1</sup> All billet requirements shown are programmed in the F-14 NTSP, the applicable CV/CVN Class Total Ship NTSP, or applicable Shore Activity Manning Document.

April 1999

II.A.1.b. BILLETS REQUIRED FOR OPERATIONAL AND FLEET SUPPORT ACTIVITIES<sup>1</sup>

ACTIVITY	UIC	PHASING INCR.	BILLETS OFF	ENL	DESIGN RATING	PNEC/SNEC PMOS/SMOS
NSAWC N7	TAR 69190		0	5	AO	8345
SWATSLANT	ACDU 47157		0	5	AO	8345
VFC-12	ACDU 52994		0	5	AO	8335/8345
VFC-13	TAR 52995		0	5	AO	8345
	TAR		0	5	AO	8345
<b>FLEET SUPPORT</b>	<b>NAVY</b>					
AIMD Dallas	00215					
	TAR		0	3	AO	6801
AIMD Fallon	60495		0	3	AO	6801
	ACDU		0	3	AO	6801
AIMD Oceana	60191		0	3	AO	6801
	ACDU		0	3	AO	6801
CV-63 USS Kitty Hawk	03363		0	3	AO	6801
	ACDU		0	3	AO	6801
	SELRES		0	2	AO	6801
<b>ACTIVITY TOTAL:</b>			0	5		
CV-64 USS Constellation	03364		0	3	AO	6801
	ACDU		0	3	AO	6801
CVN-65 USS Enterprise	03365		0	3	AO	6801
	ACDU		0	3	AO	6801
CV-67 USS Kennedy	03367		0	3	AO	6801
	ACDU		0	3	AO	6801
CVN-68 USS Nimitz	03368		0	3	AO	6801
	ACDU		0	3	AO	6801
CVN-69 USS Eisenhower	03369		0	3	AO	6801
	ACDU		0	3	AO	6801
CVN-70 USS Vinson	20993		0	3	AO	6801
	ACDU		0	3	AO	6801
CVN-71 USS Roosevelt	21247		0	3	AO	6801
	ACDU		0	3	AO	6801
CVN-72 USS Lincoln	21297		0	3	AO	6801
	ACDU		0	3	AO	6801
CVN-73 USS Washington	21412		0	3	AO	6801
	ACDU		0	3	AO	6801
CVN-74 USS Stennis	21847		0	3	AO	6801
	ACDU		0	3	AO	6801
CVN-75 USS Truman	21853		0	3	AO	6801
	ACDU		0	3	AO	6801
NAWMU-1	52821		0	6	AO	6801
	ACDU		0	6	AO	6801
NAWCAD Patuxent River	00421		0	2	AO	6801
	ACDU		0	2	AO	6801
	ACDU		0	2	AO	6801/8345
<b>ACTIVITY TOTAL:</b>			0	4		



**II.A.1.b. BILLETS REQUIRED FOR OPERATIONAL AND FLEET SUPPORT ACTIVITIES<sup>1</sup>**

ACTIVITY	UIC	PHASING INCR.	BILLETS OFF	ENL	DESIGN RATING	PNEC/SNEC PMOS/SMOS
NAWCWD Point Mugu	63126					
ACDU			0	1	AO	6801
NAWS Point Mugu	0429A					
ACDU			0	3	AO	6801
NAWS China Lake	68937					
SELRES			0	1	AO	6801

**II.A.1.c. TOTAL BILLETS REQUIRED FOR OPERATIONAL AND FLEET SUPPORT ACTIVITIES<sup>2</sup>**

DESIGN RATING	PNEC/SNEC PMOS/SMOS	PFYs		CFY98		FY99		FY00		FY01		FY02	
		OFF	ENL	OFF	ENL	OFF	ENL	OFF	ENL	OFF	ENL	OFF	ENL
OPERATIONAL ACTIVITY - ACDU													
AO	6801	0	12	0	0	0	0	0	0	0	0	0	0
AO	8335	0	25	0	0	0	0	0	0	0	0	0	0
AO	8345	0	70	0	0	0	0	0	0	0	0	0	0
OPERATIONAL ACTIVITY - TAR													
AO	8345	0	15	0	0	0	0	0	0	0	0	0	0
FLEET SUPPORT ACTIVITY - ACDU													
AO	6801	0	57	0	0	0	0	0	0	0	0	0	0
AO	6801/8345	0	2	0	0	0	0	0	0	0	0	0	0
FLEET SUPPORT ACTIVITY - TAR													
AO	6801	0	3	0	0	0	0	0	0	0	0	0	0
FLEET SUPPORT ACTIVITY - SELRES													
AO	6801	0	3	0	0	0	0	0	0	0	0	0	0
<b>SUMMARY TOTAL:</b>													
OPERATIONAL ACTIVITY - ACDU													
		0	107	0	0	0	0	0	0	0	0	0	0
OPERATIONAL ACTIVITY - TAR													
		0	15	0	0	0	0	0	0	0	0	0	0
FLEET SUPPORT ACTIVITY - ACDU													
		0	59	0	0	0	0	0	0	0	0	0	0
FLEET SUPPORT ACTIVITY - TAR													
		0	3	0	0	0	0	0	0	0	0	0	0
FLEET SUPPORT ACTIVITY - SELRES													
		0	3	0	0	0	0	0	0	0	0	0	0
<b>GRAND TOTAL:</b>													
	ACDU	0	166	0	0	0	0	0	0	0	0	0	0
	TAR	0	18	0	0	0	0	0	0	0	0	0	0
	SELRES	0	3	0	0	0	0	0	0	0	0	0	0

<sup>2</sup> All billet requirements shown are programmed in the F-14 NTSP, the applicable CV/CVN Class Total Ship NTSP, or applicable Shore Activity Manning Document.

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II.A.3. TRAINING ACTIVITIES INSTRUCTOR AND SUPPORT BILLET REQUIREMENTS<sup>3</sup>

## INSTRUCTOR BILLETS

TRAINING ACTIVITY, LOCATION, UIC: MTU 4032 NAMTRAGRUDET NAS Norfolk 66046													
DESIGN	PNEC/SNEC	PFYs		CFY99		FY00		FY01		FY02		FY03	
RATING	PMOS/SMOS	OFF	ENL	OFF	ENL	OFF	ENL	OFF	ENL	OFF	ENL	OFF	ENL
ACDU													
AO	6801/9502	0	7	0	7	0	7	0	7	0	7	0	7
SELRES													
AO	6801/9502	0	2	0	2	0	2	0	2	0	2	0	2
TOTAL:		0	9	0	9	0	9	0	9	0	9	0	9

TRAINING ACTIVITY, LOCATION, UIC: MTU 4030 NAMTRAGRUDET NS Mayport 66069													
DESIGN	PNEC/SNEC	PFYs		CFY99		FY00		FY01		FY02		FY03	
RATING	PMOS/SMOS	OFF	ENL	OFF	ENL	OFF	ENL	OFF	ENL	OFF	ENL	OFF	ENL
ACDU													
AO	6801/9502	0	3	0	3	0	3	0	3	0	3	0	3
SELRES													
AO	6801/9502	0	1	0	1	0	1	0	1	0	1	0	1
TOTAL:		0	4	0	4	0	4	0	4	0	4	0	4

TRAINING ACTIVITY, LOCATION, UIC: MTU 4033 NAMTRAGRUDET NAS North Island 66065													
DESIGN	PNEC/SNEC	PFYs		CFY99		FY00		FY01		FY02		FY03	
RATING	PMOS/SMOS	OFF	ENL	OFF	ENL	OFF	ENL	OFF	ENL	OFF	ENL	OFF	ENL
ACDU													
AO	6801/9502	0	4	0	4	0	4	0	4	0	4	0	4

TRAINING ACTIVITY, LOCATION, UIC: MTU 4035 NAMTRAGRUDET NAS Whidbey Isl. 66058													
DESIGN	PNEC/SNEC	PFYs		CFY99		FY00		FY01		FY02		FY03	
RATING	PMOS/SMOS	OFF	ENL	OFF	ENL	OFF	ENL	OFF	ENL	OFF	ENL	OFF	ENL
ACDU													
AO	6801/9502	0	0	0	3	0	3	0	3	0	3	0	3
SELRES													
AO	6801/9502	0	0	0	1	0	1	0	1	0	1	0	1
TOTAL:		0	0	0	4	0	4	0	4	0	4	0	4

<sup>3</sup> Instructor billet requirements shown are for the total course throughput for applicable NEC, not just throughput required to support AIM-54.

**II.A.4. CHARGEABLE STUDENT BILLET REQUIREMENTS <sup>4</sup>**

ACTIVITY, LOCATION, UIC	USN/ USMC	PFYs		CFY99		FY00		FY01		FY02		FY03	
		OFF	ENL	OFF	ENL	OFF	ENL	OFF	ENL	OFF	ENL	OFF	ENL
MTU 4032 NAMTRAGRUDET, NAS Norfolk, 66046	USN	0	4.9	0	5.1	0	5.1	0	5.1	0	5.1	0	5.1
MTU 4030 NAMTRAGRUDET, NS Mayport, 66069	USN	0	0.8	0	0.7	0	0.1	0	0.1	0	0.1	0	0.1
MTU 4033 NAMTRAGRUDET, NAS North Island, 66065	USN	0	3.8	0	3.8	0	3.8	0	3.8	0	3.8	0	3.8
MTU 4035 NAMTRAGRUDET, NAS Whidbey Island, 66058	USN	0	0	0	2.6	0	2.6	0	2.6	0	2.6	0	2.6
SUMMARY TOTAL:	USN	0	9.5	0	12.2	0	11.6	0	11.6	0	11.6	0	11.6
<b>GRAND TOTAL:</b>		0	9.5	0	12.2	0	11.6	0	11.6	0	11.6	0	11.6

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<sup>4</sup> Chargeable student billet requirements shown are for the total course throughput for applicable NEC, not just throughput required to support AIM-54.

**II.A.5. ANNUAL INCREMENTAL AND CUMULATIVE BILLETS<sup>5</sup>**

**a. OFFICER - USN: NA**

**b. ENLISTED - USN:**

RATING	PNEC/SNEC	BILLET BASE	CFY99		FY00		FY01		FY02		FY03	
			+/-	CUM	+/-	CUM	+/-	CUM	+/-	CUM	+/-	CUM
Operational Billets ACDU and TAR												
AO	6801	12	0	12	0	12	0	12	0	12	0	12
AO	8335	25	0	25	0	25	0	25	0	25	0	25
AO	8345	85	0	85	0	85	0	85	0	85	0	85
Fleet Support Billets ACDU and TAR												
AO	6801	57	0	57	0	57	0	57	0	57	0	57
AO	6801/8345	2	0	2	0	2	0	2	0	2	0	2
Instructor and Support (Staff) Billets ACDU and TAR												
AO	6801/9502	14	0	17	0	17	0	17	0	17	0	17
Chargeable Student Billets ACDU and TAR												
		10	2	12	0	12	0	12	0	12	0	12
TOTAL USN ENLISTED BILLETS:												
Operational		122	0	122	0	122	0	122	0	122	0	122
Fleet Support		62	0	59	0	59	0	59	0	59	0	59
Staff		14	0	17	0	17	0	17	0	17	0	17
Student		10	0	10	-1	9	0	9	0	9	0	9
SELRES		3	0	4	0	4	0	4	0	4	0	4

**c. OFFICER - USMC: NA**

**d. ENLISTED - USMC: NA**

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<sup>5</sup> Billet base identified is only a portion of the total applicable NEC billet base, which is allocated for all air-launched weapons and ordnance maintenance. Billets are programmed through applicable CV/CVN Class Total Ship NTSPs and Shore Activity Manning Documents.

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## II.B. PERSONNEL REQUIREMENTS

II.B.1. ANNUAL TRAINING INPUT REQUIREMENTS<sup>6</sup>

CIN, COURSE TITLE: D-646-7007, General Shipboard/NAS Weapons Department AVORD Maintenance

COURSE LENGTH: 6.0 Weeks

SEA TOUR LENGTH: Navy: 36 Months

ATTRITION FACTOR: Navy: 10 %

BACKOUT FACTOR: 0.12

TRAINING ACTIVITY	SOURCE	ACDU-TAR SELRES	CFY99 OFF ENL	FY00 OFF ENL	FY01 OFF ENL	FY02 OFF ENL	FY03 OFF ENL
MTU-4030 NAMTRAGRUDET, NS Mayport <sup>7</sup>							
	USN	ACDU-TAR	0 7	0 1	0 1	0 1	0 1
MTU-4032 NAMTRAGRU DET, NAS Norfolk							
	USN	ACDU-TAR	0 49	0 49	0 49	0 49	0 49
	USN	SELRES	0 0	0 0	0 1	0 0	0 0
		TOTAL	0 49	0 49	0 50	0 49	0 49

CIN, COURSE TITLE: E-646-7007, General Shipboard/NAS Weapons Department AVORD Maintenance

COURSE LENGTH: 6.0 Weeks

SEA TOUR LENGTH: Navy: 36 Months

ATTRITION FACTOR: Navy: 10 %

BACKOUT FACTOR: 0.12

TRAINING ACTIVITY	SOURCE	ACDU-TAR SELRES	CFY99 OFF ENL	FY00 OFF ENL	FY01 OFF ENL	FY02 OFF ENL	FY03 OFF ENL
MTU-4033 NAMTRAGRU DET, NAS North Island							
	USN	ACDU-TAR	0 37	0 37	0 37	0 37	0 37
	USN	SELRES	0 1	0 1	0 1	0 1	0 1
		TOTAL	0 38	0 38	0 38	0 38	0 38
MTU-4035 NAMTRAGRU DET, NAS Whidbey Island							
	USN	ACDU-TAR	0 45	0 45	0 45	0 45	0 45
	USN	SELRES	0 0	0 0	0 0	0 0	0 0
		TOTAL	0 45	0 45	0 45	0 45	0 45

## ACTIVITY TOTAL:

MTU-4030 NAMTRAGRU DET	0 7	0 1	0 1	0 1	0 1
MTU-4032 NAMTRAGRU DET	0 49	0 49	0 50	0 49	0 49
MTU-4033 NAMTRAGRU DET	0 38	0 38	0 38	0 38	0 38
MTU-4035 NAMTRAGRU DET	0 45	0 45	0 45	0 45	0 45

<sup>6</sup> ATIR shown are for the total course throughput for applicable NEC, not just throughput required to support AIM-54.<sup>7</sup> MTU 4030 NAMTRAGRUDET will begin to transfer functions to Everett, Washington in FY99.

## **PART III - TRAINING REQUIREMENTS**

The following elements are not affected by the AIM-54 Phoenix Missile System; therefore, they are not included in Part III of this NTSP:

### **III.A. Training Course Requirements**

#### **III.A.1. Initial Training Requirements**

#### **III.A.2. Follow-on Training**

##### **III.A.2.b. Planned Courses**

##### **III.A.2.c. Unique Courses**

#### **III.A.3. Existing Training Phased Out**

### III.A.2. FOLLOW-ON TRAINING

#### III.A.2.a. EXISTING COURSES

**TRAINING ACTIVITY:** MTU-4030 NAMTRAGRUDET<sup>8</sup>

**LOCATION, UIC:** NAS Mayport, 66069

**CIN, COURSE TITLE:** D-646-7007, General Shipboard/NAS Weapons Department AVORD Maintenance

**SOURCE:** NAVY **STUDENT CATEGORY:** ACDU-TAR

CFY99		FY00		FY01		FY02		FY03		
OFF	ENL	OFF	EN	OFF	EN	OFF	EN	OFF	ENL	
			L		L		L			
0	7	0	1	0	1	0	1	0	1	ATIR
0	6	0	1	0	1	0	1	0	1	Output
0.0	0.7	0.0	0.1	0.0	0.1	0.0	0.1	0.0	0.1	AOB
0.0	0.7	0.0	0.1	0.0	0.1	0.0	0.1	0.0	0.1	Chargeable

**TRAINING ACTIVITY:** MTU-4032 NAMTRAGRUDET

**LOCATION, UIC:** NAS Norfolk, 66046

**CIN, COURSE TITLE:** D-646-7007, General Shipboard/NAS Weapons Department AVORD Maintenance

**SOURCE:** NAVY **STUDENT CATEGORY:** ACDU-TAR

CFY99		FY00		FY01		FY02		FY03		
OFF	ENL	OFF	EN	OFF	EN	OFF	EN	OFF	ENL	
			L		L		L			
0	49	0	49	0	49	0	49	0	49	ATIR
0	44	0	44	0	44	0	44	0	44	Output
0.0	5.1	0.0	5.1	0.0	5.1	0.0	5.1	0.0	5.1	AOB
0.0	5.1	0.0	5.1	0.0	5.1	0.0	5.1	0.0	5.1	Chargeable

**SOURCE:** NAVY **STUDENT CATEGORY:** SELRES

CFY99		FY00		FY01		FY02		FY03		
OFF	ENL	OFF	EN	OFF	EN	OFF	EN	OFF	ENL	
			L		L		L			
0	0	0	0	0	1	0	1	0	1	ATIR
0	0	0	0	0	1	0	1	0	1	Output
0.0	0.0	0.0	0.0	0.0	0.1	0.0	0.1	0.0	0.1	AOB
0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	Chargeable

<sup>8</sup> MTU 4030 NAMTRAGRUDET will begin to transfer functions to Everett, Washington in FY99.



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**TRAINING ACTIVITY:** MTU-4033 NAMTRAGRUDET  
**LOCATION, UIC:** NAS North Island, 66065  
**CIN, COURSE TITLE:** E-646-7007, General Shipboard/NAS Weapons Department AVORD Maintenance  
**SOURCE:** NAVY **STUDENT CATEGORY:** ACDU-TAR

CFY99		FY00		FY01		FY02		FY03		
OFF	ENL	OFF	EN L	OFF	EN L	OFF	EN L	OFF	ENL	
0	37	0	37	0	37	0	37	0	37	ATIR
0	33	0	33	0	33	0	33	0	33	Output
0.0	3.8	0.0	3.8	0.0	3.8	0.0	3.8	0.0	3.8	AOB
0.0	3.8	0.0	3.8	0.0	3.8	0.0	3.8	0.0	3.8	Chargeable

**SOURCE:** NAVY **STUDENT CATEGORY:** SELRES

CFY99		FY00		FY01		FY02		FY03		
OFF	ENL	OFF	EN L	OFF	EN L	OFF	EN L	OFF	ENL	
0	1	0	1	0	1	0	1	0	1	ATIR
0	1	0	1	0	1	0	1	0	1	Output
0.0	0.1	0.0	0.1	0.0	0.1	0.0	0.1	0.0	0.1	AOB
0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	Chargeable

**TRAINING ACTIVITY:** MTU-4035 NAMTRAGRUDET  
**LOCATION, UIC:** NAS Whidbey Island, 66058  
**CIN, COURSE TITLE:** E-646-7007, General Shipboard/NAS Weapons Department AVORD Maintenance  
**SOURCE:** NAVY **STUDENT CATEGORY:** ACDU-TAR

CFY98		FY99		FY00		FY01		FY02		
OFF	ENL	OFF	ENL	OFF	ENL	OFF	ENL	OFF	ENL	
0	0	0	50	0	50	0	50	0	50	ATIR
0	0	0	45	0	45	0	45	0	45	Output
0.0	0	0.0	2.6	0.0	2.6	0.0	2.6	0.0	2.6	AOB
0.0	0	0.0	2.6	0.0	2.6	0.0	2.6	0.0	2.6	Chargeable

**PART IV - TRAINING LOGISTICS SUPPORT REQUIREMENTS**

The following elements are not affected by the AIM-54 Phoenix Missile System; therefore, they are not included in Part IV of this NTSP:

IV.B Courseware Requirements

IV.B.1. Training Services

IV.C. Facility Requirements

IV.C.1. Facility Requirements Summary (Space/Support) by Activity

IV.C.2. Facility Requirements Detailed by Activity and Course

IV.C.3. Facility Project Summary by Program

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## IV.A.1. TTE/GPTE/SPTE/ST/GPETE/SPETE

TRAINING ACTIVITY: NATTC

LOCATION, UIC: NAS Pensacola, 63082

CIN, COURSE TITLE: C-646-2011, Aviation Ordnanceman Common Core Class A1

C-646-2012, Aviation Ordnanceman Airwing Strand Class A1

C-646-2013, Aviation Ordnanceman Ships Company Strand Class A1

<u>ITEM NUMBER</u>	<u>EQUIPMENT</u>	<u>TYPE OR RANGE OF REPAIR PARTS</u>	<u>QTY REQD</u>	<u>DATE REQD</u>	<u>GFE CFE</u>	<u>STATUS</u>
TTE						
001	Adapter, ADU-399A/E		1		GFE	On-site
002	Adapter, ADU-406/E		1		GFE	On-site
003	Height adapter (aft) ADU-433A/E		1		GFE	On-site
004	Height adapter (forward) ADU-434A/E		1		GFE	On-site
005	Beam, hoisting MHU-129/E		1		GFE	On-site
006	Container, CNU-242A/E		1		GFE	On-site

TRAINING ACTIVITY: MTU-1007 NAMTRAGRUDET

LOCATION, UIC: NAS Oceana, 66045

CIN, COURSE TITLE: C-646-9962, F-14A/B Armament Systems Organizational Maintenance (Initial)

C-646-9963, F-14 Armament Systems Organizational Maintenance (Career)

C-646-9906, F-14D Armament Systems Organizational Maintenance (Difference)

<u>ITEM NUMBER</u>	<u>EQUIPMENT</u>	<u>TYPE OR RANGE OF REPAIR PARTS</u>	<u>QTY REQD</u>	<u>DATE REQD</u>	<u>GFE CFE</u>	<u>STATUS</u>
TTE						
001	Adapter, ADU-399A/E		1		GFE	On-site
002	Adapter, ADU-406/E		1		GFE	On-site
003	Height adapter (aft) ADU-433A/E		1		GFE	On-site
004	Height adapter (forward) ADU-434A/E		1		GFE	On-site

TRAINING ACTIVITY: SWATSLANT

LOCATION, UIC: NAS Oceana, 47157

CIN, COURSE TITLE: D-646-1644, F-14A/B Conventional Weapons Loading

D-646-1645, F-14A/B Integrated Weapons Team Refresher Training

D-646-1646, F-14D Conventional Weapons Loading

D-646-1648, F-14D Integrated Weapons Team Refresher Training

<u>ITEM NUMBER</u>	<u>EQUIPMENT</u>	<u>TYPE OR RANGE OF REPAIR PARTS</u>	<u>QTY REQD</u>	<u>DATE REQD</u>	<u>GFE CFE</u>	<u>STATUS</u>
TTE						
001	Adapter, ADU-399A/E		1		GFE	On-site
002	Adapter, ADU-406/E		1		GFE	On-site
003	Height adapter (aft) ADU-433A/E		1		GFE	On-site
004	Height adapter (forward) ADU-434A/E		1		GFE	On-site

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## IV.A.1. TTE/GPTE/SPTE/ST/GPETE/SPETE

TRAINING ACTIVITY: MTU-4030 NAMTRAGRUDET

LOCATION, UIC: NS Mayport, 66069

CIN, COURSE TITLE: D-646-7007, General Shipboard/NAS Weapons Department AVORD Maintenance

<u>ITEM NUMBER</u>	<u>EQUIPMENT</u>	<u>TYPE OR RANGE OF REPAIR PARTS</u>	<u>QTY REQD</u>	<u>DATE REQD</u>	<u>GFE CFE</u>	<u>STATUS</u>
TTE						
001	Adapter, ADU-399A/E		1		GFE	On-site
002	Adapter, ADU-406/E		1		GFE	On-site
003	Height adapter (aft) ADU-433A/E		1		GFE	On-site
004	Height adapter (forward) ADU-434A/E		1		GFE	On-site
005	Beam, hoisting MHU-129/E		1		GFE	On-site
006	Container, CNU-242A/E		1		GFE	On-site

TRAINING ACTIVITY: MTU-4032 NAMTRAGRUDET

LOCATION, UIC: NAS Norfolk, 66046

CIN, COURSE TITLE: D-646-7007, General Shipboard/NAS Weapons Department AVORD Maintenance

<u>ITEM NUMBER</u>	<u>EQUIPMENT</u>	<u>TYPE OR RANGE OF REPAIR PARTS</u>	<u>QTY REQD</u>	<u>DATE REQD</u>	<u>GFE CFE</u>	<u>STATUS</u>
TTE						
001	Adapter, ADU-399A/E		1		GFE	On-site
002	Adapter, ADU-406/E		1		GFE	On-site
003	Height adapter (aft) ADU-433A/E		1		GFE	On-site
004	Height adapter (forward) ADU-434A/E		1		GFE	On-site
005	Beam, hoisting MHU-129/E		1		GFE	On-site
006	Container, CNU-242A/E		1		GFE	On-site

TRAINING ACTIVITY: MTU-4033 NAMTRAGRUDET

LOCATION, UIC: NAS North Island, 66065

CIN, COURSE TITLE: E-646-7007, General Shipboard/NAS Weapons Department AVORD Maintenance

<u>ITEM NUMBER</u>	<u>EQUIPMENT</u>	<u>TYPE OR RANGE OF REPAIR PARTS</u>	<u>QTY REQD</u>	<u>DATE REQD</u>	<u>GFE CFE</u>	<u>STATUS</u>
TTE						
001	Adapter, ADU-399A/E		1		GFE	On-site
002	Adapter, ADU-406/E		1		GFE	On-site
003	Height adapter (aft) ADU-433A/E		1		GFE	On-site
004	Height adapter (forward) ADU-434A/E		1		GFE	On-site
005	Beam, hoisting MHU-129/E		1		GFE	On-site
006	Container, CNU-242A/E		1		GFE	On-site

**IV.A.1. TTE/GPTE/SPTE/ST/GPETE/SPETE**

**TRAINING ACTIVITY:** MTU-4035 NAMTRAGRUDET

**LOCATION, UIC:** NAS Whidbey Island, 66058

**CIN, COURSE TITLE:** E-646-7007, General Shipboard/NAS Weapons Department AVORD Maintenance

<u>ITEM NUMBER</u>	<u>EQUIPMENT</u>	<u>TYPE OR RANGE OF REPAIR PARTS</u>	<u>QTY REQD</u>	<u>DATE REQD</u>	<u>GFE CFE</u>	<u>STATUS</u>
TTE						
001	Adapter, ADU-399A/E		1		GFE	On-site
002	Adapter, ADU-406/E		1		GFE	On-site
003	Height adapter (aft) ADU-433A/E		1		GFE	On-site
004	Height adapter (forward) ADU-434A/E		1		GFE	On-site
005	Beam, hoisting MHU-129/E		1		GFE	On-site
006	Container, CNU-242A/E		1		GFE	On-site

**April 1999**

**IV.A.2. TRAINING DEVICES**

**DEVICE:** Captive Air Training Missile

**DESCRIPTION OF DEVICE:** The Phoenix CATM, designated as ATM-54A or ATM-54C are equivalent to tactical missiles in weight, balance, and external appearance. A Phoenix CATM consists of functional guidance and control sections and inert armament and propulsion sections.

**MANUFACTURER:** NA

**CONTRACT NUMBER:** NA

**TEE STATUS:** NA

<b>TRAINING ACTIVITY LOCATION, UIC</b>	<b>QTY REQD</b>	<b>DATE REQD</b>	<b>RFT DATE</b>	<b>STATUS</b>	<b>COURSES SUPPORTED</b>
VF-101, NAS Oceana, 09067	10			On-site	D-2A-1601, D-2D-1601 D-2A-1602, D-2D-1602 D-2A-1603, D-2D-1603 D-2A-1604, D-2D-1604 D-2A-1605, D-2D-1605 D-2A-1631, D-2D-1631 D-2A-1634, D-2D-1634 D-2A-1637, D-2D-1637 D-2A-1640, D-2D-1640
SWATSLANT, NAS Oceana, 47157	8			On-site	SFARP SFWE
VF-14, NAS Oceana, 09084	8			On-site	T&R
VF-32, NAS Oceana, 09053	8			On-site	T&R
VF-41, NAS Oceana, 09774	8			On-site	T&R
VF-154, Yokosuka, 09678	8			On-site	T&R
VF-211, NAS Oceana, 09086	8			On-site	T&R
VF-213, NAS Oceana, 09934	8			On-site	T&R
VF-102, NAS Oceana, 09717	8			On-site	T&R
VF-103, NAS Oceana, 09718	8			On-site	T&R
VF-2, NAS Oceana, 09113	8			On-site	T&R
VF-11, NAS Oceana, 09560	8			On-site	T&R
VF-31, NAS Oceana, 09473	8			On-site	T&R
VF-143, NAS Oceana, 09281	8			On-site	T&R
VF-201, JRB NAS Fort Worth, 09309	8			On-site	T&R
<b>TOTAL:</b>	122				

**April 1999**

**IV.A.2. TRAINING DEVICES**

**DEVICE:** Dummy Air Training Missile, DATM-7F-11

**DESCRIPTION OF DEVICE:** The DATM is physically representative of the AIM-54. It is a training device to facilitate instruction and familiarization for transporting, handling, loading, and visual inspection procedures for organizational- and intermediate-level training purposes. The DATM is not certified for flight, and is designed for ground training use only. The Phoenix CATM is a suitable replacement for the Phoenix DATM requirement.

**MANUFACTURER:** NA

**CONTRACT NUMBER:** NA

**TEE STATUS:** NA

<b>TRAINING ACTIVITY LOCATION, UIC</b>	<b>QTY REQD</b>	<b>DATE REQD</b>	<b>RFT DATE</b>	<b>STATUS</b>	<b>COURSES SUPPORTED</b>
MTU-1007, NAMTRAGRUDET NAS Oceana, 66045	2			On-site	C-646-9973 C-646-9974
SWATSLANT NAS Oceana, 47157	2			On-site	D-646-1644 D-646-1645 D-646-1646 D-646-1648
MTU-4030, NAMTRAGRUDET NAS Mayport, 66069	2			On-site	C-122-3111
MTU-4032, NAMTRAGRUDET NAS Norfolk, 66046	2			On-site	C-122-3111
MTU-4033, NAMTRAGRUDET NAS North Island, 66065	2			On-site	C-122-3111
NATTC, NAS Pensacola, 63082	2			On-site	C-646-2011 C-646-2012 C-646-2013
NAS/Joint Reserve Base (JRB) New Orleans New Orleans, Louisiana, 00206	2			On-site	F-14 Conventional Weapons Loading
NAS/JRB Fort Worth Fort Worth, Texas, 00215	2			On-site	F-14 Conventional Weapons Loading
<b>TOTAL:</b>	16				

April 1999

#### IV.A.2. TRAINING DEVICES

**DEVICE:** Practical Explosive Ordnance Disposal System Trainer (PEST)

**DESCRIPTION OF DEVICE:** The basic performance requirements for a PEST are: 1) to replicate the external features of tactical missile for visual identification purposes; 2) to possess the same weight and center of gravity as the tactical missile for handling realism; 3) to contain inert explosive train components; and 4) to disassemble identically to the tactical missile (where applicable) in order to practice Render Safe Procedures (RSP). An AIM-54 PEST was never developed nor procured, however, practical training requirements for AIM-54 are currently met through the use of inert tactical missiles and/or components and CATMs.

**MANUFACTURER:** NA

**CONTRACT NUMBER:** NA

**TEE STATUS:** NA

<b>TRAINING ACTIVITY LOCATION, UIC</b>	<b><u>QTY REQD</u></b>	<b><u>DATE REQD</u></b>	<b><u>RFT DATE</u></b>	<b><u>STATUS</u></b>	<b><u>COURSES SUPPORTED</u></b>
NAVSCOLEOD Eglin Air Force Base, 46207	1			On-site	A-431-0011 A-431-0012
EODTEU ONE NAS Barbers Point, 30202	1			On-site	G-431-0001
EODTEU TWO Fort Story, 43505	1			On-site	G-431-0001

**DEVICE:** Classroom Explosive Ordnance Disposal System Trainer (CEST)

**DESCRIPTION OF DEVICE:** The basic performance requirements for a CEST are: 1) to replicate the external features of tactical missile for visual identification purposes; 2) to contain inert explosive train components; and 3) to provide cut-away areas in its exterior in order to view the inert explosive train components for teaching RSPs. An AIM-54 CEST was never developed nor procured; however, classroom training requirements for AIM-54 are currently supported through the use of inert tactical missiles and/or components that have been modified (cut-away) to view internal, inert explosive components.

**MANUFACTURER:** NA

**CONTRACT NUMBER:** NA

**TEE STATUS:** NA

<b>TRAINING ACTIVITY LOCATION, UIC</b>	<b><u>QTY REQD</u></b>	<b><u>DATE REQD</u></b>	<b><u>RFT DATE</u></b>	<b><u>STATUS</u></b>	<b><u>COURSES SUPPORTED</u></b>
NAVSCOLEOD Eglin Air Force Base, 46207	1			On-site	A-431-0011 A-431-0012



#### IV.B.2. CURRICULA MATERIALS AND TRAINING AIDS

AIM-54 data is integrated within applicable existing follow-on courses. There are no stand-alone AIM-54 courses.

**TRAINING ACTIVITY:** VF-101

**LOCATION, UIC:** NAS Oceana, 09067

<b>CIN, COURSE TITLE:</b>	D-2A-1601, F-14A/B Pilot Cat 1	D-2D-1601, F-14A/B NFO Cat 1
	D-2A-1602, F-14A/B Pilot Cat 2	D-2D-1602, F-14A/B NFO Cat 2
	D-2A-1603, F-14A/B Pilot Cat 3	D-2D-1603, F-14A/B NFO Cat 3
	D-2A-1604, F-14A/B Pilot Cat 4	D-2D-1604, F-14A/B NFO Cat 4
	D-2A-1605, F-14A/B Pilot Cat 5	D-2D-1605, F-14A/B NFO Cat 5
	D-2A-1631, F-14D Pilot Cat 1	D-2D-1631, F-14D NFO Cat 1
	D-2A-1634, F-14D Pilot Cat 2	D-2D-1634, F-14D NFO Cat 2
	D-2A-1637, F-14D Pilot Cat 3	D-2D-1637, F-14D NFO Cat 3
	D-2A-1640, F-14D Pilot Cat 4	D-2D-1640, F-14D NFO Cat 4

<u><b>TYPE OF MATERIAL OR AID</b></u>	<u><b>QTY REQD</b></u>	<u><b>DATE REQD</b></u>	<u><b>STATUS</b></u>
SFTS AIM-54 Brief	1 Set		On Board

**TRAINING ACTIVITY:** Strike Weapons And Tactics School Atlantic

**LOCATION, UIC:** NAS Oceana, 47157

**CIN, COURSE TITLE:** Strike Fighter Advanced Readiness Program (SFARP)  
Strike Fighter Weapons Employment (SFWE)

<u><b>TYPE OF MATERIAL OR AID</b></u>	<u><b>QTY REQD</b></u>	<u><b>DATE REQD</b></u>	<u><b>STATUS</b></u>
SFTS AIM-54 Brief	1 Set		On Board

**TRAINING ACTIVITY:** Naval Strike and Air Warfare Center N7 (Topgun)

**LOCATION, UIC:** NAS Fallon, 69190

**CIN, COURSE TITLE:** Strike Fighter Training Program (SFTP)  
Strike Fighter Tactics Instructor (SFTI)  
Strike Fighter Weapons and Tactics (SFWT)

<u><b>TYPE OF MATERIAL OR AID</b></u>	<u><b>QTY REQD</b></u>	<u><b>DATE REQD</b></u>	<u><b>STATUS</b></u>
SFTS AIM-54 Brief	1 Set		On Board

**TRAINING ACTIVITY:** NATTC

**LOCATION, UIC:** NAS Pensacola, 63082

**CIN, COURSE TITLE:** C-646-2011, Aviation Ordnance Common Core Class A1  
C-646-2012, Aviation Ordnance Airwing Strand Class A1  
C-646-2013, Aviation Ordnance Ships Company Strand Class A1

<u><b>TYPE OF MATERIAL OR AID</b></u>	<u><b>QTY REQD</b></u>	<u><b>DATE REQD</b></u>	<u><b>STATUS</b></u>
AIM-54 Training Package	1 Set		On Board

**IV.B.2. CURRICULA MATERIALS AND TRAINING AIDS**

**TRAINING ACTIVITY:** MTU 1007 NAMTRAGRUDET  
**LOCATION, UIC:** NAS Oceana, 66045  
**CIN, COURSE TITLE:** C-646-9962, F-14A/B Armament Systems Initial Organizational Maintenance  
 C-646-9963, F-14A/B Armament Systems Career Organizational Maintenance  
 C-646-9906, F-14D Armament Systems Organizational Maintenance (Difference)

<u><b>TYPE OF MATERIAL OR AID</b></u>	<u><b>QTY REQD</b></u>	<u><b>DATE REQD</b></u>	<u><b>STATUS</b></u>
AIM-54 Training Package	1 Set		On Board

**TRAINING ACTIVITY:** Strike Weapons And Tactic School Atlantic  
**LOCATION, UIC:** NAS Oceana, 47084  
**CIN, COURSE TITLE:** D-646-1644, F-14A/B Conventional Weapons Loading  
 D-646-1645, F-14A/B Integrated Weapons Team Refresher Training  
 D-646-1646, F-14D Conventional Weapons Loading  
 D-646-1648, F-14D Integrated Weapons Team Refresher Training

<u><b>TYPE OF MATERIAL OR AID</b></u>	<u><b>QTY REQD</b></u>	<u><b>DATE REQD</b></u>	<u><b>STATUS</b></u>
AIM-54 Training Package	1 Set		On Board

**TRAINING ACTIVITY:** MTU 4030 NAMTRAGRUDET  
**LOCATION, UIC:** NS Mayport, 66069  
**CIN, COURSE TITLE:** C-122-3111, Air Launched Guided Missiles Intermediate Maintenance

<u><b>TYPE OF MATERIAL OR AID</b></u>	<u><b>QTY REQD</b></u>	<u><b>DATE REQD</b></u>	<u><b>STATUS</b></u>
AIM-54 Training Package	1 Set		On Board

**TRAINING ACTIVITY:** MTU 4032 NAMTRAGRUDET  
**LOCATION, UIC:** NAS Norfolk, 66046  
**CIN, COURSE TITLE:** C-122-3111, Air Launched Guided Missiles Intermediate Maintenance

<u><b>TYPE OF MATERIAL OR AID</b></u>	<u><b>QTY REQD</b></u>	<u><b>DATE REQD</b></u>	<u><b>STATUS</b></u>
AIM-54 Training Package	1 Set		On Board

**TRAINING ACTIVITY:** MTU 4033 NAMTRAGRUDET  
**LOCATION, UIC:** NAS North Island, 66065  
**CIN, COURSE TITLE:** C-122-3111, Air Launched Guided Missiles Intermediate Maintenance

<u><b>TYPE OF MATERIAL OR AID</b></u>	<u><b>QTY REQD</b></u>	<u><b>DATE REQD</b></u>	<u><b>STATUS</b></u>
AIM-54 Training Package	1 Set		On Board

**TRAINING ACTIVITY:** MTU 4035 NAMTRAGRUDET  
**LOCATION, UIC:** NAS Whidbey Island, 66058  
**CIN, COURSE TITLE:** C-122-3111, Air Launched Guided Missiles Intermediate Maintenance

<u><b>TYPE OF MATERIAL OR AID</b></u>	<u><b>QTY REQD</b></u>	<u><b>DATE REQD</b></u>	<u><b>STATUS</b></u>
AIM-54 Training Package	1 Set		On Board

**IV.B.2. CURRICULA MATERIALS AND TRAINING AIDS**

**TRAINING ACTIVITY:** NAVSCOLEOD  
**LOCATION, UIC:** Eglin Air Force Base, 46207  
**CIN, COURSE TITLE:** A-431-0011, EOD Phase II (Navy)  
A-431-0012, EOD Phase II

<u>TYPE OF MATERIAL OR AID</u>	<u>QTY REQD</u>	<u>DATE REQD</u>	<u>STATUS</u>
AIM-54 RSP Data	1 Set		On Board

**TRAINING ACTIVITY:** EODTEU ONE  
**LOCATION, UIC:** NAS Barbers Point, 30202  
**CIN, COURSE TITLE:** G-431-0001, EOD Pre-deployment Team Training

<u>TYPE OF MATERIAL OR AID</u>	<u>QTY REQD</u>	<u>DATE REQD</u>	<u>STATUS</u>
AIM-54 RSP Data	1 Set		On Board

**TRAINING ACTIVITY:** EODTEU TWO  
**LOCATION, UIC:** Fort Story, 43505  
**CIN, COURSE TITLE:** G-431-0001, EOD Pre-deployment Team Training

<u>TYPE OF MATERIAL OR AID</u>	<u>QTY REQD</u>	<u>DATE REQD</u>	<u>STATUS</u>
AIM-54 RSP Data	1 Set		On Board

**IV.B.3. TECHNICAL MANUALS**

**TRAINING ACTIVITY:** VF-101

**LOCATION, UIC:** NAS Oceana, 09067

<b>CIN, COURSE TITLE:</b>	D-2A-1601, F-14A/B Pilot Cat 1	D-2D-1601, F-14A/B NFO Cat 1
	D-2A-1602, F-14A/B Pilot Cat 2	D-2D-1602, F-14A/B NFO Cat 2
	D-2A-1603, F-14A/B Pilot Cat 3	D-2D-1603, F-14A/B NFO Cat 3
	D-2A-1604, F-14A/B Pilot Cat 4	D-2D-1604, F-14A/B NFO Cat 4
	D-2A-1605, F-14A/B Pilot Cat 5	D-2D-1605, F-14A/B NFO Cat 5
	D-2A-1631, F-14D Pilot Cat 1	D-2D-1631, F-14D NFO Cat 1
	D-2A-1634, F-14D Pilot Cat 2	D-2D-1634, F-14D NFO Cat 2
	D-2A-1637, F-14D Pilot Cat 3	D-2D-1637, F-14D NFO Cat 3
	D-2A-1640, F-14D Pilot Cat 4	D-2D-1640, F-14D NFO Cat 4

<u>TECHNICAL MANUAL TITLE, NUMBER</u>	<u>MEDIUM</u>	<u>QTY REQD</u>	<u>DATE REQD</u>	<u>STATUS</u>
NATOPS Flight Manual Navy Model F-14, NA 01-F14AAA-1	Hard copy	6		On board
NATOPS Pocket Checklist, NA 01-F14AAA-1B	Hard copy	6		On board
Tactical Manual, NA 01-F14AAA-1.1T	Hard copy	6		On board

**TRAINING ACTIVITY:** Strike Weapons And Tactics School Atlantic

**LOCATION, UIC:** NAS Oceana, 47157

**CIN, COURSE TITLE:** Strike Fighter Advanced Readiness Program (SFARP)  
Strike Fighter Weapons Employment (SFWE)

<u>TECHNICAL MANUAL TITLE, NUMBER</u>	<u>MEDIUM</u>	<u>QTY REQD</u>	<u>DATE REQD</u>	<u>STATUS</u>
NATOPS Flight Manual Navy Model F-14, NA 01-F14AAA-1	Hard copy	6		On board
NATOPS Pocket Checklist, NA 01-F14AAA-1B	Hard copy	6		On board
Tactical Manual, NA 01-F14AAA-1.1T	Hard copy	6		On board

**TRAINING ACTIVITY:** Naval Strike and Air Warfare Center N7 (Topgun)

**LOCATION, UIC:** NAS Fallon, 69190

**CIN, COURSE TITLE:** Strike Fighter Training Program (SFTP)  
Strike Fighter Tactics Instructor (SFTI)  
Strike Fighter Weapons and Tactics (SFWT)

<u>TECHNICAL MANUAL TITLE, NUMBER</u>	<u>MEDIUM</u>	<u>QTY REQD</u>	<u>DATE REQD</u>	<u>STATUS</u>
NATOPS Flight Manual Navy Model F-14, NA 01-F14AAA-1	Hard copy	6		On board
NATOPS Pocket Checklist, NA 01-F14AAA-1B	Hard copy	6		On board
Tactical Manual, NA 01-F14AAA-1.1T	Hard copy	6		On board

#### IV.B.3. TECHNICAL MANUALS

**TRAINING ACTIVITY:** NATTC  
**LOCATION, UIC:** NAS Pensacola, 63082  
**CIN, COURSE TITLE:** C-646-2011, Aviation Ordnance Common Core Class A1  
 C-646-2012, Aviation Ordnance Airwing Strand Class A1  
 C-646-2013, Aviation Ordnance Ships Company Strand Class A1

<u>TECHNICAL MANUAL TITLE, NUMBER</u>	<u>MEDIUM</u>	<u>QTY REQD</u>	<u>DATE REQD</u>	<u>STATUS</u>
AIM-7, AIM-9, AIM-54, and AIM-120 Guided Missile Work Unit Code Manual, NA A1-AIM AA-WUC-800	Hard copy	8		On board
Airborne Weapons/Stores Loading Manual, NA 01-F14AAA-75	Hard copy	8		On board
Conventional Weapons Checklist (Phoenix), NA 01-F14AAA-75-35	Hard copy	8		On board
Aircraft, Release and Control (Missile), Conventional Weapons Checklist, NA 01-F14AAA-75-1A2	Hard copy	8		On board
Conventional Weapons Checklist, F14A/B Arm and De-Arm, NA 01-F14AAA-75-40	Hard copy	8		On board
CV/NAS Intermediate Missile Handling & Maintenance Instructions, AIM-54A/C/ECCM/Sealed, NA 01-AIM54-2-3	Hard copy	8		On board
Guided Missile AIM-54 Phoenix Ship Weapons Installation Manual, NA 11-120-26	Hard copy	8		On board
Airborne Weapons Assembly Manual, NA 11-140-6.1	Hard copy	8		On board
Armament Weapons Support Equipment, NA 11-140-25	Hard copy	8		On board
Approved Handling Equipment for Weapons and Explosives, NA 19-100-1.2 (OP-2173)	Hard copy	8		On board
Armament Weapons Handling Equipment (Shipboard), NA 19-100-2	Hard copy	8		On board

#### IV.B.3. TECHNICAL MANUALS

**TRAINING ACTIVITY:** MTU 1007 NAMTRAGRUDET

**LOCATION, UIC:** NAS Oceana, 66045

**CIN, COURSE TITLE:** C-646-9962, F-14A/B Armament Systems Initial Organizational Maintenance  
C-646-9963, F-14A/B Armament Systems Career Organizational Maintenance  
C-646-9906, F-14D Armament Systems Organizational Maintenance (Difference)

AIM-7, AIM-9, AIM-54, and AIM-120 Guided Missile Work Unit Code Manual, NA A1-AIM AA-WUC-800	Hard copy	8	On board
Airborne Weapons/Stores Loading Manual, NA 01-F14AAA-75	Hard copy	8	On board
Conventional Weapons Checklist (Phoenix), NA 01-F14AAA-75-35	Hard copy	8	On board
Aircraft, Release and Control (Missile), Conventional Weapons Checklist, NA 01-F14AAA-75-1A2	Hard copy	8	On board
Conventional Weapons Checklist, F14A/B Arm and De-Arm, NA 01-F14AAA-75-40	Hard copy	8	On board

**TRAINING ACTIVITY:** Strike Weapons And Tactic School Atlantic

**LOCATION, UIC:** NAS Oceana, 47084

**CIN, COURSE TITLE:** D-646-1644, F-14A/B Conventional Weapons Loading  
D-646-1645, F-14A/B Integrated Weapons Team Refresher Training  
D-646-1646, F-14D Conventional Weapons Loading  
D-646-1648, F-14D Integrated Weapons Team Refresher Training

AIM-7, AIM-9, AIM-54, and AIM-120 Guided Missile Work Unit Code Manual, NA A1-AIM AA-WUC-800	Hard copy	8	On board
Airborne Weapons/Stores Loading Manual, NA 01-F14AAA-75	Hard copy	8	On board
Conventional Weapons Checklist (Phoenix), NA 01-F14AAA-75-35	Hard copy	8	On board
Aircraft, Release and Control (Missile), Conventional Weapons Checklist, NA 01-F14AAA-75-1A2	Hard copy	8	On board
Conventional Weapons Checklist, F14A/B Arm and De-Arm, NA 01-F14AAA-75-40	Hard copy	8	On board

**IV.B.3. TECHNICAL MANUALS**

**TRAINING ACTIVITY:** MTU 4030 NAMTRAGRUDET  
**LOCATION, UIC:** NS Mayport, 66069  
**CIN, COURSE TITLE:** C-122-3111, Air Launched Guided Missiles Intermediate Maintenance  
 C-646-4108, Air Launched Weapons Ordnance Supervisor  
 C-646-4109, Weapons Department General Ordnance

<u>TECHNICAL MANUAL TITLE, NUMBER</u>	<u>MEDIUM</u>	<u>QTY REQD</u>	<u>DATE REQD</u>	<u>STATUS</u>
AIM-7, AIM-9, AIM-54, and AIM-120 Guided Missile Work Unit Code Manual, NA A1-AIM AA-WUC-800	Hard copy	8		On board
CV/NAS Intermediate Missile Handling & Maintenance Instructions, AIM-54A/C/ECCM/Sealed, NA 01-AIM54-2-3	Hard copy	8		On board
Guided Missile AIM-54 Phoenix Ship Weapons Installation Manual, NA 11-120-26	Hard copy	8		On board
Airborne Weapons Assembly Manual, NA 11-140-6.1	Hard copy	8		On board
Armament Weapons Support Equipment, NA 11-140-25	Hard copy	8		On board
Approved Handling Equipment for Weapons and Explosives, NA 19-100-1.2 (OP-2173)	Hard copy	8		On board
Armament Weapons Handling Equipment (Shipboard), NA 19-100-2	Hard copy	8		On board
Airborne Weapons Packaging/Handling/Stowage (Shipboard), Volume I NA 11-120A-1.1	Hard copy	8		On board
Airborne Weapons Packaging/Handling/Stowage (Shipboard), Volume II NA 11-120A-1.2	Hard copy	8		On board
Ammunition and Explosives Afloat, NAVSEA OP-4	Hard copy	8		On board
Ammunition and Explosives Ashore, NAVSEA OP-5	Hard copy	8		On board

#### **IV.B.3. TECHNICAL MANUALS**

**TRAINING ACTIVITY:** MTU 4032 NAMTRAGRUDET  
**LOCATION, UIC:** NAS Norfolk, 66046  
**CIN, COURSE TITLE:** C-122-3111, Air Launched Guided Missiles Intermediate Maintenance  
C-646-4108, Air Launched Weapons Ordnance Supervisor  
C-646-4109, Weapons Department General Ordnance

AIM-7, AIM-9, AIM-54, and AIM-120 Guided Missile Work Unit Code Manual, NA A1-AIM AA-WUC-800	Hard copy	8	On board
CV/NAS Intermediate Missile Handling & Maintenance Instructions, AIM-54A/C/ECCM/Sealed, NA 01-AIM54-2-3	Hard copy	8	On board
Guided Missile AIM-54 Phoenix Ship Weapons Installation Manual, NA 11-120-26	Hard copy	8	On board
Airborne Weapons Assembly Manual, NA 11-140-6.1	Hard copy	8	On board
Armament Weapons Support Equipment, NA 11-140-25	Hard copy	8	On board
Approved Handling Equipment for Weapons and Explosives, NA 19-100-1.2 (OP-2173)	Hard copy	8	On board
Armament Weapons Handling Equipment (Shipboard), NA 19-100-2	Hard copy	8	On board
Airborne Weapons Packaging/Handling/Stowage (Shipboard), Volume I NA 11-120A-1.1	Hard copy	8	On board
Airborne Weapons Packaging/Handling/Stowage (Shipboard), Volume II NA 11-120A-1.2	Hard copy	8	On board
Ammunition and Explosives Afloat, NAVSEA OP-4	Hard copy	8	On board
Ammunition and Explosives Ashore, NAVSEA OP-5	Hard copy	8	On board



#### **IV.B.3. TECHNICAL MANUALS**

**TRAINING ACTIVITY:** MTU 4033 NAMTRAGRUDET  
**LOCATION, UIC:** NAS North Island, 66065  
**CIN, COURSE TITLE:** C-122-3111, Air Launched Guided Missiles Intermediate Maintenance  
C-646-4108, Air Launched Weapons Ordnance Supervisor  
C-646-4109, Weapons Department General Ordnance

AIM-7, AIM-9, AIM-54, and AIM-120 Guided Missile Work Unit Code Manual, NA A1-AIM AA-WUC-800	Hard copy	8	On board
CV/NAS Intermediate Missile Handling & Maintenance Instructions, AIM-54A/C/ECCM/Sealed, NA 01-AIM54-2-3	Hard copy	8	On board
Guided Missile AIM-54 Phoenix Ship Weapons Installation Manual, NA 11-120-26	Hard copy	8	On board
Airborne Weapons Assembly Manual, NA 11-140-6.1	Hard copy	8	On board
Armament Weapons Support Equipment, NA 11-140-25	Hard copy	8	On board
Approved Handling Equipment for Weapons and Explosives, NA 19-100-1.2 (OP-2173)	Hard copy	8	On board
Armament Weapons Handling Equipment (Shipboard), NA 19-100-2	Hard copy	8	On board
Airborne Weapons Packaging/Handling/Stowage (Shipboard), Volume I NA 11-120A-1.1	Hard copy	8	On board
Airborne Weapons Packaging/Handling/Stowage (Shipboard), Volume II NA 11-120A-1.2	Hard copy	8	On board
Ammunition and Explosives Afloat, NAVSEA OP-4	Hard copy	8	On board
Ammunition and Explosives Ashore, NAVSEA OP-5	Hard copy	8	On board

#### **IV.B.3. TECHNICAL MANUALS**

**TRAINING ACTIVITY:** MTU 4035 NAMTRAGRUDET  
**LOCATION, UIC:** NAS Whidbey Island, 66058  
**CIN, COURSE TITLE:** C-122-3111, Air Launched Guided Missiles Intermediate Maintenance  
C-646-4108, Air Launched Weapons Ordnance Supervisor  
C-646-4109, Weapons Department General Ordnance

AIM-7, AIM-9, AIM-54, and AIM-120 Guided Missile Work Unit Code Manual, NA A1-AIM AA-WUC-800	Hard copy	8	On board
CV/NAS Intermediate Missile Handling & Maintenance Instructions, AIM-54A/C/ECCM/Sealed, NA 01-AIM54-2-3	Hard copy	8	On board
Guided Missile AIM-54 Phoenix Ship Weapons Installation Manual, NA 11-120-26	Hard copy	8	On board
Airborne Weapons Assembly Manual, NA 11-140-6.1	Hard copy	8	On board
Armament Weapons Support Equipment, NA 11-140-25	Hard copy	8	On board
Approved Handling Equipment for Weapons and Explosives, NA 19-100-1.2 (OP-2173)	Hard copy	8	On board
Armament Weapons Handling Equipment (Shipboard), NA 19-100-2	Hard copy	8	On board
Airborne Weapons Packaging/Handling/Stowage (Shipboard), Volume I NA 11-120A-1.1	Hard copy	8	On board
Airborne Weapons Packaging/Handling/Stowage (Shipboard), Volume II NA 11-120A-1.2	Hard copy	8	On board
Ammunition and Explosives Afloat, NAVSEA OP-4	Hard copy	8	On board
Ammunition and Explosives Ashore, NAVSEA OP-5	Hard copy	8	On board

**IV.B.3. TECHNICAL MANUALS**

**TRAINING ACTIVITY:** NAVSCOLEOD  
**LOCATION, UIC:** Eglin Air Force Base, 46207  
**CIN, COURSE TITLE:** A-431-0011, EOD Phase II (Navy)  
A-431-0012, EOD Phase II

<u>TECHNICAL MANUAL TITLE, NUMBER</u>	<u>MEDIUM</u>	<u>QTY REQD</u>	<u>DATE REQD</u>	<u>STATUS</u>
Explosive Ordnance Disposal Book, EODB60G-02-2-34-5	CD-ROM	150		On board
Airborne Weapons/Stores Loading Manual, NA 01-F14AAA-75	Hard copy	8		On board
Conventional Weapons Checklist, NA 01-F14AAA-75-21	Hard copy	8		On board

**TRAINING ACTIVITY:** EODTEU ONE  
**LOCATION, UIC:** NAS Barbers Point, 30202  
**CIN, COURSE TITLE:** G-431-0001, EOD Pre-deployment Team Training

<u>TECHNICAL MANUAL TITLE, NUMBER</u>	<u>MEDIUM</u>	<u>QTY REQD</u>	<u>DATE REQD</u>	<u>STATUS</u>
Explosive Ordnance Disposal Book, EODB60G-02-2-34-5	CD-ROM	4		On board
Airborne Weapons/Stores Loading Manual, NA 01-F14AAA-75	Hard copy	8		On board
Conventional Weapons Checklist, NA 01-F14AAA-75-21	Hard copy	8		On board

**TRAINING ACTIVITY:** EODTEU TWO  
**LOCATION, UIC:** Fort Story, 43505  
**CIN, COURSE TITLE:** G-431-0001, EOD Pre-deployment Team Training

<u>TECHNICAL MANUAL TITLE, NUMBER</u>	<u>MEDIUM</u>	<u>QTY REQD</u>	<u>DATE REQD</u>	<u>STATUS</u>
Explosive Ordnance Disposal Book, EODB60G-02-2-34-5	CD-ROM	4		On board
Airborne Weapons/Stores Loading Manual, NA 01-F14AAA-75	Hard copy	8		On board
Conventional Weapons Checklist, NA 01-F14AAA-75-21	Hard copy	8		On board

**PART V - MPT MILESTONES**

<b>COG CODE</b>	<b>MPT MILESTONES</b>	<b>DATE</b>	<b>STATUS</b>
AIR-418	Commence initial training	1982	Completed
AIR-418	DT/OT Training	Aug 1983 Jun 1985	Completed Completed
PMA259	Initial operating capability AIM-54A AIM-54C AIM-54C/ECCM Sealed Missile	1974 1986 1988	Completed Completed Completed
PMA259	Material support date AIM-54A AIM-54C AIM-54C/ECCM Sealed Missile	Apr 1975 Aug 1986 Aug 1988	Completed Completed Completed
AIR-418	Training devices delivered	FY91	Completed
PMA205	Follow-on training updated for AIM-54C ECCM/Sealed	FY91	Completed
OP 111	Approve and Promulgate NTP A-50-8007A	Sep 87	Completed
OPNAV N889H	Approve and Promulgate NTP A-50-8007B	Sep 92	Completed
PMA205	Promulgate Draft NTSP for Fleet Comment	Aug 97	Completed
OPNAV N889H	Promulgate Approved NTSP	Apr 99	Completed

**PART VI - DECISION ITEMS/ACTION REQUIRED**

<b>DECISION ITEM OR ACTION REQUIRED</b>	<b>COMMAND ACTION</b>	<b>DUE DATE</b>	<b>STATUS</b>
Identify squadron proficiency training requirements, e.g., CATM, in Draft NTSP	PMA205-5F	July 97	Closed

## PART VII - POINTS OF CONTACT

NAME, ACTIVITY, CODE	FUNCTION	PHONE: NUMBER COMMERCIAL/DSN, FAX: COMMERCIAL/DSN, INTERNET ADDRESS
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CAPT Frank J. Smith CNO N889H	Aviation Technical Training	(703) 604-7730, DSN 664 (703) 604-6939 (fax) <a href="mailto:smith.frank@hq.navy.mil">smith.frank@hq.navy.mil</a>
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LCDR Crane NAVMAC Code 30	Aviation Manpower	(901) 874-5894, DSN 882 (901) 874-7125 (fax) <a href="mailto:nkmh1@navtap.navy.mil">nkmh1@navtap.navy.mil</a>
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Mr. C. Lewis NAWCWD CL 341000D	Technical Training Support	(760) 939-4623, DSN 437 (760) 927-1155 (fax) <a href="mailto:lewiscw@navair.navy.mil">lewiscw@navair.navy.mil</a>
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April 1999

## PART VII - POINTS OF CONTACT

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BTM Cagle NAVSCOLEOD CIS4	EOD Weapons Acquisition and Training Aids Acquisition	(850) 882-0840, DSN 872 (850) 882-9519 (fax)
LCDR S. Langlais CNET 2512	Aviation Ordnance Training	(850) 452-8911, DSN 452 (850) 452-4901 (fax) <a href="mailto:cnet.t2512@smtp.cnet.navy.mil">cnet.t2512@smtp.cnet.navy.mil</a>
AOCM W. Carroll NAMTRAGRU 2206	Missile Systems Training	(850) 452-9787, DSN 922 (850) 452-9769 (fax) <a href="mailto:namtghq.2206@smtp.cnet.navy.mil">namtghq.2206@smtp.cnet.navy.mil</a>
LCDR D. McManus CINCPACFLT N4211	Current (Load) Operations	(808) 474-6430, DSN 474 <a href="mailto:u4211@cpf.navy.mil">u4211@cpf.navy.mil</a>
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